

SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **Nutrient Agar**
- Product Part Number: **7145**

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Acumedia Manufacturers, Inc.
- Address of Manufacturer: 740 East Shiawassee
Lansing, Michigan 48912
USA
- Telephone: 517/372-9200
- Email: foodsafety@neogen.com

1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: (800) 424-9300
Outside USA and Canada: +1 (703) 527-3887
-

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Not classified as hazardous for supply
- Classification (67/548/EEC, 1999/45/EC) (OSHA 29 CFR 1910.1200)
- Not classified as hazardous for supply
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Signal Word: None
- Symbols: None
- Hazard phrases
None
- Precautionary Phrases
Keep container tightly closed.
Do not breathe dust
Do not get in eyes, on skin, or on clothing.

2.3 Other hazards

- Mildly irritating to skin and eyes
 - Mildly irritating to respiratory system
-

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

- This product does not contain any hazardous substances at the concentration limits given in Regulation (EC) No. 1272/2008 and OSHA Hazard Communication Standard 29 CFR 1910.1200
-

SECTION 4 First aid measures

4.1 Description of first aid measures

- Contact with skin
 - Remove contaminated clothing
 - Wash affected area with plenty of soap and water
 - If skin irritation or rash occurs: Get medical advice/attention.
 - Contaminated clothing should be laundered before reuse
- Contact with eyes
 - If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes
 - Irrigate eyes thoroughly while lifting eyelids
 - Seek medical advice if necessary
- Ingestion
 - Rinse mouth with water (do not swallow)
 - Never make an unconscious person vomit or drink fluids
 - If medical advice is needed, have product container or label at hand.
- Inhalation
 - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- May cause irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
-

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure
- Decomposition products may include carbon oxides
- May form explosive dust/air mixtures
- See Section 10

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
 - Wear chemical protection suit and positive-pressure breathing apparatus
 - Wear protective clothing as per section 8
-

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources
- Use non-sparking hand tools

SECTION 6 Accidental release measures (continued)

- Avoid raising dust
- Remove contaminated clothing
- Wear protective clothing as per section 8
- Wash thoroughly after dealing with spillage

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- Avoid scattering in the environment

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Place in sealable container
- Seal containers and label them
- Seek expert advice for removal and disposal of all contaminated materials and wastes
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 7
-

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust
- Avoid contact with skin and eyes
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation
- Eyewash bottles should be available
- Wash hands thoroughly after using this substance

7.2 Conditions for safe storage, including any incompatibilities

- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a dry place.
- Keep away from oxidizing substances
- Keep away from acid

7.3 Specific end use(s)

- For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product

8.2 Exposure controls

- Eyewash bottles should be available
- Engineering controls should be provided to prevent the need for ventilation
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask, N95 (US) or type FFP1 (EN143) dust masks.
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for NIOSH (US) or EN 166.

SECTION 8 Exposure controls/personal protection (continued)

- Wear suitable protective clothing



Gloves



Safety
Glasses



Lab Coat

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Homogenous, free-flowing powder, Beige
- Odor: No information available
- pH: Not applicable
- Melting point/Range: No information available
- Boiling Point/Range: Not determined
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: Completely soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature Product is not self-igniting
- Viscosity: No information available
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: No information available

9.2 Other information

- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid contact with moisture
- Keep away from heat and sources of ignition

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- No experimental data available
 - Contact with skin
 - May cause redness and irritation
 - Contact with eyes
 - May cause redness and irritation
 - Ingestion
 - May cause irritation of the throat
 - Inhalation
 - May cause coughing
 - Carcinogenicity
 - No evidence of carcinogenic effects
 - Mutagenicity
 - No evidence of mutagenic effects
 - Teratogenicity
 - No information available
-

SECTION 12 Ecological information

12.1 Toxicity

- No information available

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- PBT/vPvB assessment not available

12.6 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated
 - On available data, substance is not harmful to the environment
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorized waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning
- Refer to manufacturer/supplier for information on recovery/recycling

13.2 Classification (REACH)

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
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SECTION 14 Transport information

14.1 UN Number

Not classified as hazardous for transport

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not Classified

14.8 DOT

- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Sea (IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable

14.11 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
 - ICAO Un No.: Not applicable
 - ICAO Hazard Class: Not applicable
 - ICAO Packing Group: Not applicable
-

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

15.2 Chemical Safety Assessment

- No information available

15.3 United States Regulatory Information

SECTION 15 Regulatory information (continued)

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: The material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

No SARA Hazards

SECTION 16 Other information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.

Section 1 Identification

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HOME SCIENCE TOOLS

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Billings, MT 59102
800-860-6272
www.homesciencetools.com

**CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300**
For laboratory and industrial use only.
Not for drug, food or household use.

Product INITIAL SAMPLE HOME TRAINING**Synonyms** None

Section 2 Hazards identification

Signal word: WARNING**Pictograms:** No symbol required**Target organs:** Red blood cells**GHS Classification:**

Acute toxicity (Category 5)

Eye irritation (Category 2B)

GHS Label information: Hazard statement(s):

H303: May be harmful if swallowed.

H320: Causes eye irritation.

Precautionary statement(s):

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313: If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	99.009%	231-791-2
Sodium nitrate	7631-99-4	0.990%	231-554-3
Sodium phosphate, tribasic, dodecahydrate	10101-89-0	0.001%	231-509-8

Section 4 First aid measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: USE WATER ONLY. Do not use dry chemical or foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

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Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from combustible or reducing agents.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium nitrate	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Clear, colorless liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability and reactivity

Chemical stability: Stable
Hazardous polymerization: Will not occur.
Conditions to avoid: Excessive temperatures which cause evaporation. Keep away from combustible or reducing agents.
Incompatible materials: Combustible materials, reducing agents, strong acids and flammable materials.
Hazardous decomposition products: Nitrogen oxides.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 1267 mg/kg [Sodium nitrate]
Skin corrosion/irritation: Data not available
Serious eye damage/irritation: Data not available
Respiratory or skin sensitization: Data not available
Germ cell mutagenicity: Data not available
Carcinogenicity: Data not available
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Reproductive toxicity: Data not available
STOT-single exposure: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
Inhalation: Cough and sore throat.
Ingestion: Abdominal pain, cyanosis (blue lips, fingernails and skin), convulsions, diarrhea, dizziness, headache, labored breathing, confusion, nausea, unconsciousness.
Skin: Redness.
Eyes: Redness and pain.
Signs and symptoms of exposure: Ingestion could cause effects on the blood. This may result in formation of methaemoglobin. The effect may be delayed. Exercise appropriate procedures to minimize potential hazards.
Additional information: RTECS #: WC5600000 [Sodium nitrate]

Section 12 Ecological information

Toxicity to fish: Lepomis macrochirus (fish, fresh water), LC50 = 12,800 mg/L/24 hours [Sodium nitrate]
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), LC50 = 6,000 mg/L/24 hours [Sodium nitrate]
Toxicity to algae: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
PBT and vPvB assessment: No data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport information

UN/NA number: Not applicable
Shipping name: Not Regulated
Hazard class: Not applicable
Packing group: Not applicable
Reportable Quantity: No
Marine pollutant: No
Exceptions: Not applicable
2016 ERG Guide # Not applicable

Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium nitrate	Listed	Not listed	D001	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Section 1 Identification

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**CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300**
For laboratory and industrial use only.
Not for drug, food or household use.

Product TARGET + SAMPLE 1 HOME TRAINING**Synonyms** None

Section 2 Hazards identification

Signal word: WARNING**Pictograms:** No symbol required**Target organs:** Red blood cells**GHS Classification:**

Acute toxicity (Category 5)

Eye irritation (Category 2B)

GHS Label information: Hazard statement(s):

H303: May be harmful if swallowed.

H320: Causes eye irritation.

Precautionary statement(s):

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313: If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	99.0009%	231-791-2
Sodium nitrate	7631-99-4	0.01%	231-554-3
Sodium phosphate, tribasic, dodecahydrate	10101-89-0	0.0001%	231-509-8

Section 4 First aid measures

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: USE WATER ONLY. Do not use dry chemical or foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from combustible or reducing agents.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium nitrate	Not established	Not established	Not established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Clear, colorless liquid.	Evaporation rate (Water = 1): <1	Partition coefficient: Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available.
pH: Data not available.	Vapor pressure (mm Hg): 14 (water)	Viscosity: Data not available.
Melting / Freezing point: Approximately 0°C (32°F) (water)	Vapor density (Air = 1): 0.7 (water)	Molecular formula: Mixture
Boiling point: Approximately 100°C (212°F) (water)	Relative density (Specific gravity): Approximately 1.0 (water)	Molecular weight: Mixture
Flash point: Data not available	Solubility(ies): Complete in water.	

Section 10 Stability and reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation. Keep away from combustible or reducing agents.

Incompatible materials: Combustible materials, reducing agents, strong acids and flammable materials.

Hazardous decomposition products: Nitrogen oxides.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 1267 mg/kg [Sodium nitrate]

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Cough and sore throat.

Ingestion: Abdominal pain, cyanosis (blue lips, fingernails and skin), convulsions, diarrhea, dizziness, headache, labored breathing, confusion, nausea, unconsciousness.

Skin: Redness.

Eyes: Redness and pain.

Signs and symptoms of exposure: Ingestion could cause effects on the blood. This may result in formation of methaemoglobin. The effect may be delayed. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: WC5600000 [Sodium nitrate]

Section 12 Ecological information

Toxicity to fish: Lepomis macrochirus (fish, fresh water), LC50 = 12,800 mg/L/24 hours [Sodium nitrate]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), LC50 = 6,000 mg/L/24 hours [Sodium nitrate]

Toxicity to algae: No data available

Persistence and degradability: No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available **PBT and vPvB assessment:** No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport information

UN/NA number: Not applicable **Shipping name:** Not Regulated

Hazard class: Not applicable **Packing group:** Not applicable **Reportable Quantity:** No **Marine pollutant:** No

Exceptions: Not applicable **2016 ERG Guide #** Not applicable

Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium nitrate	Listed	Not listed	D001	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Section 1 Identification

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Phone Number (800) 424-9300**
For laboratory and industrial use only.
Not for drug, food or household use.

Product DEIONIZED WATER**Synonyms** Hydrogen Oxide / Distilled Water

Section 2 Hazards identification

This substance has not been classified at this time according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: Not a hazardous substance**Pictograms:** Not a hazardous substance**Target organs:** None known**GHS Classification:**

Not a hazardous substance

GHS Label information:**Hazard statement:** Not a hazardous substance**Precautionary statement(s):** Not a hazardous substance**Supplemental information:**

Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials.
For laboratory use only. Do not ingest.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Deionized water	7732-18-5	100%	231-791-2

Section 4 First aid measures

Uncontaminated water should not pose any ill health effects. If ill effects develop, get immediate medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Not a fire hazard. Water is used for extinguishing fires.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials. See Section 10.

Section 6 Accidental release measures

Personal Precautions: Uncontaminated material poses no hazards.**Environmental Precautions:** Uncontaminated material may be flushed to sewer.**Containment and Cleanup:** Uncontaminated material may be flushed to sewer.

Precautions for Safe Handling: Read label on container before using. Not for drug, food or household use. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool area away from water-reactive or dangerous when wet substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	None listed	None listed	None listed	None listed

Engineering controls: None required.

Respiratory protection: None required.

Section 9 Physical and chemical properties

Appearance: Clear, colorless liquid.	Evaporation rate (Water = 1): 1	Partition coefficient: (n-octanol / water): Data not available
Odor: No odor.	Flammability (solid/gas): Not flammable	Auto-ignition temperature: Not flammable
Odor threshold: Data not available	Explosion limits: Lower / Upper: Not flammable	Decomposition temperature: Data not available.
pH: Data not available	Vapor pressure (mm Hg): 14	Viscosity: Data not available.
Melting / Freezing point: 0°C (32°F)	Vapor density (Air = 1): 0.7	Molecular formula: H ₂ O
Boiling point: 100°C (212°F)	Relative density (Specific gravity): 0.99707 @ 20/20°C	Molecular weight: 18.01
Flash point: Not flammable	Solubility(ies): Complete	

Section 10 Stability and reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Absorption of fumes and carbon dioxide gas.

Incompatible materials: Water-reactive metals: sodium, potassium, calcium, barium, alkali metal alloys, liquid amalgams, amides, carbides, hydrides, aluminum powders, silicides, cerium, concentrated acids.

Hazardous decomposition products: Electrolysis will produce explosive and flammable hydrogen and oxygen.

Section 11 Toxicological information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: No ill effects expected.

Ingestion: No ill effects expected.

Skin: No ill effects expected.

Eyes: No ill effects expected.

Signs and symptoms of exposure: No ill effects expected.

Additional information: RTECS #: Data not available

Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport information

UN/NA number: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2016 ERG Guide # Not applicable

Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Deionized water	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

SAFETY DATA SHEET



Issuing Date: 05-Oct-2015

Revision Date: 05-Oct-2015

Version 1

1. IDENTIFICATION

Product Name	Dawn Ultra Dishwashing Liquid, Original Scent
Product ID:	97591965_RET_NG
Product Type:	Finished Product - Consumer (Retail) Use Only
Recommended use	Dish Care
Restrictions on Use	Use only as directed on label.
Synonyms	Dawn Ultra Dishwashing Liquid, Pomegranate Awakening (97591967_RET_NG) Dawn Ultra Dishwashing Liquid, Apple Orchard Harvest (97591968_RET_NG)
Manufacturer	PROCTER & GAMBLE - Fabric and Home Care Division Ivorydale Technical Centre 5289 Spring Grove Avenue Cincinnati, Ohio 45217-1087 USA Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5 1-800-331-3774
E-mail Address	pgsds.im@pg.com
Emergency Telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

Hazard Category	
Eye Damage / Irritation	Category 2B
Signal Word	WARNING
Hazard Statements	Causes eye irritation
Hazard pictograms	None

Precautionary Statements - Prevention	Wash hands thoroughly after handling
Precautionary Statements - Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF SWALLOWED: Drink 1 or 2 glasses of water
Precautionary Statements - Storage	None
Precautionary Statements - Disposal	None
Hazards not otherwise classified (HNOC)	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	No	68585-47-7	15 - 20
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	No	68585-34-2	5 - 10
Amine oxides, C10-16-alkyldimethyl	Amine oxides, C10-16-alkyldimethyl	No	70592-80-2	5 - 10
Ethanol	Ethanol	No	64-17-5	1 - 5

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact	Rinse with plenty of water. Get medical attention immediately if irritation persists.
Skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Most important symptoms/effects, acute and delayed	None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.
Unsuitable Extinguishing Media	None.
Special hazard	None known.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific hazards arising from the chemical	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
Advice for emergency responders	Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible products	None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1880 mg/m ³	STEL: 1000 ppm	STEL: 1000 ppm

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures**Distribution, Workplace and Household Settings:**

Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment**Eye Protection****Distribution, Workplace and Household Settings:**

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Use appropriate eye protection

Hand Protection**Distribution, Workplace and Household Settings:**

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Protective gloves

Skin and Body Protection**Distribution, Workplace and Household Settings:**

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Wear suitable protective clothing

Respiratory Protection**Distribution, Workplace and Household Settings:**

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State @20°C**

liquid

Appearance

Various color by product

Odor

Scented

Odor threshold

No information available

Property**Values****Note****pH value**

9.0 - 9.2

10% aqueous solution

Melting/freezing point

No information available

Boiling point/boiling range

100 - 104 °C / 212 - 219 °F

Flash point

No Flash to Boiling (NFTB)

Evaporation rate

No information available

Flammability (solid, gas)

No information available

Flammability Limits in Air**Upper flammability limit**

No information available

Lower Flammability Limit

No information available

Vapor pressure

No information available

Vapor density

No information available

Relative density

1.04

Water solubility

100%

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity of Product No information available
VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.
Stability Stable under normal conditions.
Hazardous polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.
Conditions to Avoid None under normal processing.
Materials to avoid None in particular.
Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Inhalation No known effect.
Skin contact No known effect.
Ingestion No known effect.
Eye contact Irritating to eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity No known effect.
Skin corrosion/irritation No known effect.
Serious eye damage/eye irritation Irritating to eyes.
Skin sensitization No known effect.
Respiratory sensitization No known effect.
Germ cell mutagenicity No known effect.
Neurological Effects No known effect.
Reproductive toxicity No known effect.
Developmental toxicity No known effect.
Teratogenicity No known effect.
STOT - single exposure No known effect.
STOT - repeated exposure No known effect.
Target Organ Effects No known effect.
Aspiration hazard No known effect.
Carcinogenicity No known effect.

Component Information

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	>2001 mg/kg	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

Persistence and degradability No information available.

Bioaccumulative potential	No information available.
Mobility	No information available.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Codes (non-household setting)	331

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>IATA</u>	Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Phenoxyethanol	122-99-6	X

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	X

California Proposition 65

This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X

Chemical Name	CAS-No	Massachusetts
Ethanol	64-17-5	X

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	X
Sodium hydroxide	1310-73-2	X
Phenoxyethanol	122-99-6	X

International Inventories

United States

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada

This product is in compliance with CEPA for import by P&G.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 05-Oct-2015

Revision Date: 05-Oct-2015

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

Section 1 Chemical Product and Company Identification

Page E1 of E2

HOME SCIENCE TOOLS

665 Carbon Street
Billings, MT 59102
800-860-6272
www.homesciencetools.com

CHEMTREC 24 Hour Emergency USA
Phone Number (800) 424-9300
1 703-741-5500 (from anywhere in the world).
For laboratory and industrial use only.
Not for drug, food or household use.

Product SODIUM CHLORIDE**Synonyms** Common Salt / Rock Salt

Section 2 Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: Not classified**Pictograms:** Not classified**Target organs:** None known**GHS Classification:** Not classified**GHS Label information: Hazard statement(s):** Not classified**Precautionary statement(s):** Not classified**Supplementary information:**

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Sodium chloride	7647-14-5	100%	231-598-3

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from acids.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium chloride	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Solid, white crystals.	Evaporation rate (= 1): Data not available	Partition coefficient: Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available
pH: 4.0-9.0	Vapor pressure (mm Hg): 2.4	Viscosity: Data not available.
Melting / Freezing point: 801°C (>1473°F)	Vapor density (Air = 1): Data not available	Molecular formula: NaCl
Boiling point: 1465°C (2669°F)	Relative density (Specific gravity): 2.16 @ 25°C	Molecular weight: 58.45
Flash point: Non combustible	Solubility(ies): 1 g/2.8 ml water at 25°C	

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Wet conditions can cause caking and/or corrosion.

Incompatible materials: Strong acids.

Hazardous decomposition products: Electrolysis can produce chlorine gas.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 3000 mg/kg
Skin corrosion/irritation: Data not available
Serious eye damage/irritation: Data not available
Respiratory or skin sensitization: Data not available
Germ cell mutagenicity: Data not available
Carcinogenicity: Data not available
 NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
 OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity: Data not available
STOT-single exposure: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
 Inhalation: Inhalation of dust leaves salty taste with mild irritation to mucous membrane in nose and throat.
 Ingestion: Ingestion of large amounts (more than 0.1 pound) may cause vomiting.
 Skin: Contact may cause very slight irritation.
 Eyes: Contact may cause very slight irritation.
Signs and symptoms of exposure: Gross overexposure over a long period of time, results in dehydration.
Additional information: RTECS #: VZ4725000

Section 12 Ecological Information

Toxicity to fish: Lepomis macrochirus (fish, freshwater) LC50: 9,675 mg/l/96 hours
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea) EC50: 6,175 mg/l/16 hours
Toxicity to algae: Anabaena variabilis (Algae) LC50: 23,565 mg/l/4 day
Persistence and degradability: No data available **Bioaccumulative potential:** No data available
Mobility in soil: No data available **PBT and vPvB assessment:** No data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: Not applicable **Shipping name:** Not Regulated
Hazard class: Not applicable **Packing group:** Not applicable **Reportable Quantity:** No **Marine pollutant:** No
Exceptions: Not applicable **2016 ERG Guide #** Not applicable

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium chloride	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Issuing Date Dec-11-2014

Revision Number 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier**Product name** NITRATE/NITRITE TEST STRIPS**Other means of identification****Product Code(s)** 2996**Recommended use of the chemical and restrictions on use****Recommended Use** Industrial (not for food or food contact use). Test kit reagent for water testing.**Details of the supplier of the safety data sheet**LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620 USA
T 410-778-3100
F 410-778-9748**Emergency telephone number**

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance White plastic strip with multiple test pads**Physical state** Test strip**Odor** Odorless**Unknown Aquatic Toxicity**

100% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Surfactants	00000	<1
Polymers	0-0-0	<1
Indicators	0	<1
Buffers	0000	<1

This product is exempt from the MSDS requirement since it is defined as an "article" per 29 CFR 1910.1200(b)(6)(v). "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

4. FIRST AID MEASURES

FIRST AID MEASURES

General advice	No hazards which require special first aid measures.
Eye contact	Rinse thoroughly with water as necessary.
Skin contact	Wash skin with soap and water.
Inhalation	Not Applicable.
Ingestion	Consult a physician. White plastic strip is indigestible, may cause gastrointestinal discomfort if many have been swallowed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with the skin and the eyes.
Environmental precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Not Applicable.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
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Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture. Keep out of the reach of children.
Incompatible Products	Not Applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Surfactants 00000	-	-	None Established
Polymers 0-0-0	-	-	None Established
Indicators 0	-	-	None Established
Buffers 0000	-	-	None Established

Appropriate engineering controls

Engineering Measures None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Hygiene Measures Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Test strip		
Appearance	White plastic strip with multiple test pads	Odor	Odorless

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash point	No information available	
Evaporation rate		
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content	No information available
Density	No information available

Bulk density No information available

10. STABILITY AND REACTIVITY

Stability Stable.
Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.
Conditions to avoid Exposure to air or moisture over prolonged periods.
Incompatible materials Not Applicable.
Hazardous decomposition products None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Not an expected route of exposure.
Eye contact May cause temporary eye irritation.
Skin contact Repeated exposure may cause skin dryness or cracking.
Ingestion May cause gastrointestinal discomfort if consumed in large amounts. Plastic strip is indigestible.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Surfactants 00000	None Established	None Established	None Established
Polymers 0-0-0	None Established	None Established	None Established
Indicators 0	None Established	None Established	None Established
Buffers 0000	None Established	None Established	None Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Surfactants 00000	-	None Established	None Established	-
Polymers 0-0-0	-	None Established	None Established	-
Indicators 0	-	None Established	None Established	-
Buffers 0000	-	None Established	None Established	-

Chronic toxicity No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 100% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Surfactants 00000	None Established	None Established	None Established
Polymers 0-0-0	None Established	None Established	None Established
Indicators 0	None Established	None Established	None Established
Buffers 0000	None Established	None Established	None Established

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Surfactants 00000	None Established
Polymers 0-0-0	None Established
Indicators 0	None Established
Buffers 0000	None Established

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging

Do not re-use empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Surfactants 00000	None Established	-	None Established	None Established
Polymers 0-0-0	None Established	-	None Established	None Established
Indicators 0	None Established	-	None Established	None Established
Buffers 0000	None Established	-	None Established	None Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Surfactants 00000	None Established	None Established	None Established	None Established
Polymers 0-0-0	None Established	None Established	None Established	None Established
Indicators 0	None Established	None Established	None Established	None Established
Buffers 0000	None Established	None Established	None Established	None Established

Chemical name	California Hazardous Waste Status
Surfactants 00000	-
Polymers 0-0-0	-
Indicators 0	-
Buffers 0000	-

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Surfactants 00000	None Established
Polymers 0-0-0	None Established
Indicators 0	None Established
Buffers 0000	None Established

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Surfactants 00000	None Established	None Established	None Established	None Established
Polymers 0-0-0	None Established	None Established	None Established	None Established
Indicators 0	None Established	None Established	None Established	None Established
Buffers 0000	None Established	None Established	None Established	None Established

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Surfactants 00000	-	None Established	-
Polymers 0-0-0	-	None Established	-
Indicators 0	-	None Established	-
Buffers 0000	-	None Established	-

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

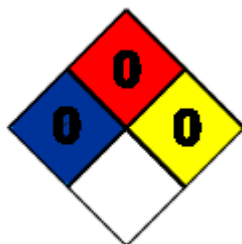
Chemical name	California Prop. 65
Surfactants 00000	None Established
Polymers 0-0-0	None Established
Indicators 0	None Established
Buffers 0000	None Established

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Surfactants 00000	None Established	None Established	None Established
Polymers 0-0-0	None Established	None Established	None Established
Indicators 0	None Established	None Established	None Established
Buffers 0000	None Established	None Established	None Established

16. OTHER INFORMATION

NFPA	Health hazard 0	Flammability 0	Instability 0	Physical and Chemical Hazards N/A
HMIS	Health hazard 0	Flammability 0	Physical hazards 0	Personal precautions N/A



Health Hazard	0
Fire Hazard	0
Reactivity	0

Prepared by	Regulatory Affairs Department
Issuing Date	Dec-11-2014
Revision Date	Dec-12-2014
Reason for revision	Update to Format
Disclaimer	

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

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SECTION 1. IDENTIFICATION

Identification of the company:

Uline, Inc.
12575 Uline Drive
Pleasant Prarie, WI 53158
Telephone No.: 800-295-5510

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Material number:

299037

CAS number:

7631-86-9

Chemical family:

approx. 94 - 96 % silica, approx. 4 - 6 % water of constitution and approx. 0,3 % water-soluble components

Primary product use:

Adsorbing medium for technical applications

Primary product use:

Packaging

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

This product is considered an "Article" by the US Department of Labor, Occupational Safety & Health Administration (OSHA) under OSHA 29 CFR 1910.1200(c) and is exempt from the requirements of a Safety Data Sheet (SDS) found in the Hazard Communication Standard, 29 CFR 1910.1200(b)(v).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : approx. 94 - 96 % silica, approx. 4 - 6 % water of constitution and approx. 0,3 % water-soluble components

Components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4. FIRST AID MEASURES

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General advice	: none
If inhaled	: No special precautions required. In case of irritation when dust is inhaled, provide for plenty of fresh air.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	: No special precautions required. If large quantities of this material are swallowed, call a physician immediately. Call your local Poison Control Center (In the U.S. call 1-800-222-1222).
Most important symptoms and effects, both acute and delayed	: The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: None known.
Further information	: Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Special protective equipment for firefighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Do not breathe dust. No special precautions required.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Take up uncontaminated material and pass on for further processing. Take up contaminated material by mechanical means, load

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into clean containers, and dispose of in accordance with legal regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special precautions required.
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
- Conditions for safe storage : Keep container tightly closed and dry.
- Further information on storage conditions : Store in a dry place.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m³ for respirable fraction and 15 mg/m³ for total dust. ACGIH exposure guidelines of less than 3 mg/m³ (respirable) and 10 mg/m³ (inhalable) have been established for particles (insoluble/poorly soluble) not otherwise specified (PNOS).

- Engineering measures** : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

Personal protective equipment

- Respiratory protection : Use local exhaust if dusting occurs. Good general ventilation is adequate in the absence of dusts.
- Hand protection
Remarks : Impervious rubber such as neoprene, nitrile, natural rubber, butyl rubber, PVC, or teflon.
- Eye protection : Follow facility guidelines in the absence of dusts.
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.
- Hygiene measures : Wash off with warm water and soap.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid form
Colour	: various
Odour	: none
Odour Threshold	: not available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Flash point	: does not flash
Evaporation rate	: Non-Volatile
Flammability (solid, gas)	: not determined
Self-ignition	: not tested.
Burning number	: not determined
Upper explosion limit / upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not tested.
Density	: not determined
Bulk density	: not determined
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: no data available

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.
Sublimation point	: not determined
Minimum ignition energy	: not tested.
Particle size	: not tested.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	: None known.
Incompatible materials	: Water
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

None known.

Acute toxicity

Product:

Acute oral toxicity	: Remarks: Not applicable
Acute inhalation toxicity	: LC50 (Rat, male and female): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

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GLP: yes

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: Other
GLP: no

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: no data available

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 667 - 10000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster ovary cells
Concentration: 10 - 500 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells

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Concentration: 38 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Rat (male)
Strain: Fischer F344
Application Route: Inhalation
Exposure time: 13 w, 6 h/d, 5 d/wk
Dose: ca. 50 mg/m³
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Product:

Species: Rat, (male and female)
Application Route: oral (feed)
Exposure time: 103 w
Dose: 1,25 - 2,5 - 5 % in diet
Group: yes
Frequency of Treatment: daily
NOAEL: ca. 1,800 - 3,000 mg/kg bw/day
Method: OECD Test Guideline 453
Result: negative
GLP: No information available.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Effects on fertility : Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)

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Dose: 497 (m), 509 (f) mg/kg
General Toxicity - Parent: NOAEL: 497 mg/kg body weight
General Toxicity F1: NOAEL: 497 mg/kg body weight
Method: OECD Test Guideline 415
GLP: no

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: wistar
Application Route: oral (gavage)
Dose: 13,5 - 62,7 - 292 - 1350mg/kg
General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight
Teratogenicity: NOAEL: 1,350 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
No teratogenic effects to be expected.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species: Rat, male and female
NOAEL: 4000 - 4500 mg/kg bw/day
Application Route: oral (feed)
Exposure time: 13 w
Number of exposures: continuously
Dose: 0,5 - 2 - 6,7 % SI in diet
Group: yes
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, male and female
NOAEL: 1,3 mg/m³
LOAEL: 0.0059 mg/l
Application Route: Inhalation
Exposure time: 13 w
Number of exposures: 6 hr/day; 5 days a week
Dose: 1,3 - 5,9 - 31 mg/m³
Group: yes

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Method: OECD Test Guideline 413
GLP: yes

Application Route: Skin contact
Remarks: This information is not available.

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LL0 (Brachydanio rerio (zebrafish)): 10,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal

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concentration.

Toxicity to fish (Chronic toxicity) : NOEC: 86.03 mg/l
Exposure time: 30 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 34.223 mg/l
Exposure time: 30 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Sediment toxicity : LC50: 148.41 mg/l
Duration: 14 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Product:

Environmental fate and pathways : Remarks: not available

Additional ecological information : According to experience and to the information currently available, the product has no harmful effects on the environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

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Authorization Act

Waste Code : NONE

Waste from residues : Dispose of this product in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

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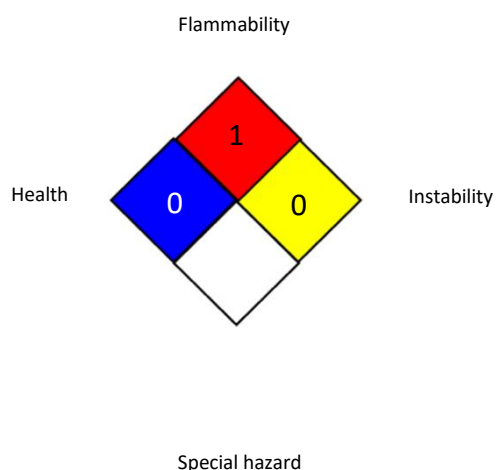
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NFPA 704:



Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

SAFETY DATA SHEET

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Page 13

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04/20/2021

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US / EN

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Página 1

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

SECCIÓN 1. IDENTIFICACIÓN

Identificación de la compañía:

Uline, Inc.
12575 Uline Drive
Pleasant Prairie, WI 53158
Núm. Teléfono: 800-295-5510

Nº telf. de emergencia: +1 800-424-9300 CHEMTREC

Nombre comercial:

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Número de material:

299037

Número CAS:

7631-86-9

Familia química:

aprox. 94 - 96% dióxido de silicio, aprox. 4 - 6% agua de constitución y un 0,3% partes hidrosolubles

Uso primario del producto:

Agente de adsorción para aplicaciones técnicas

Uso primario del producto:

Envases

SECCIÓN 2. IDENTIFICACIÓN DE LOS PELIGROS

Clasificación GHS de acuerdo con Norma de Comunicación de Riesgos de OSHA (29 CFR 1910.1200)

No es una sustancia o mezcla peligrosa.

Elementos de etiquetado GHS

No es una sustancia o mezcla peligrosa.

Otros peligros

Este producto es considerado un "Artículo" por el Departamento de trabajo de los EE.UU., Administración de Seguridad y Salud Ocupacional (OSHA según OSHA 29 CFR 1910. 1200(c) y esta exento de los requisitos de la hoja de datos de seguridad (SDS) que se encuentra en la Comunicación de Peligros Estándar, 29 CFR 1910. 1200(b)(v).

SECCIÓN 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

Sustancia / Mezcla : Sustancia

Naturaleza química : aprox. 94 - 96% dióxido de silicio, aprox. 4 - 6% agua de constitución y un 0,3% partes hidrosolubles

Componentes

Este material no está considerado como peligroso por el Estándar de Comunicación de Riesgos de OSHA (29 CFR 1910.1200).

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SECCIÓN 4. PRIMEROS AUXILIOS

- Recomendaciones generales : ninguno(a)
- Si es inhalado : No se requieren precauciones especiales.
Si al respirar el polvo se presentan irritaciones, proporcionar al afectado aire fresco.
- En caso de contacto con la piel : Lávese inmediatamente con jabón y agua abundante.
- En caso de contacto con los ojos : Enjuagar inmediatamente con abundante agua, también debajo de los párpados, al menos durante 15 minutos.
- Por ingestión : No se requieren precauciones especiales.
Si una grande cantidad de este material se ha tragado, llamar inmediatamente un médico.
Llame al Centro de Control de Envenenamientos local (En los EE.UU., llame al 1-800-222-1222).
- Principales síntomas y efectos, agudos y retardados : Los posibles síntomas conocidos son los derivados del etiquetado (ver apartado 2).
No se conocen síntomas adicionales.
- Notas para el médico : Tratar sintomáticamente.

SECCIÓN 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

- Medios de extinción apropiados : Usar medidas de extinción que sean apropiadas a las circunstancias del local y a sus alrededores.
- Medios de extinción no apropiados : Chorro de agua de gran volumen
- Peligros específicos en la lucha contra incendios : Ninguna conocida.
- Otros datos : Usar ropa de protección completa y equipo de respiración autónomo de presión positiva aprobado por NIOSH/MSHA.
- Equipo de protección especial para el personal de lucha contra incendios : Utilice un aparato respiratorio autónomo de presión positiva aprobado además del equipo de lucha contra incendios estándar.

SECCIÓN 6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL

- Precauciones personales, equipo de protección y procedimientos de : No respirar el polvo.
No se requieren precauciones especiales.

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emergencia

Precauciones relativas al medio ambiente : No se requieren precauciones especiales medioambientales.

Métodos y material de contención y de limpieza : Recoger material no ensuciado y aportarlo para su utilización. Recoger el material contaminado por medios mecánicos(>,<)> depositarlo en contenedores limpios y eliminar de acuerdo con la normativa legal.

SECCIÓN 7. MANIPULACIÓN Y ALMACENAMIENTO

Indicaciones para la protección contra incendio y explosión : No se requieren precauciones especiales.

Consejos para una manipulación segura : Manipular con las precauciones de higiene industrial adecuadas, y respetar las prácticas de seguridad.

Condiciones para el almacenaje seguro : Manténgase el recipiente bien cerrado y en lugar seco.

Información complementaria sobre las condiciones de almacenamiento : Almacenar en un lugar seco.

Materias que deben evitarse : Ningún material a mencionar especialmente.

Más información acerca de la estabilidad durante el almacenamiento : Estable bajo las condiciones de almacenamiento recomendadas.

SECCIÓN 8. CONTROLES DE EXPOSICIÓN/ PROTECCIÓN INDIVIDUAL

Componentes con valores límite ambientales de exposición profesional.

Todo polvo inerte o molesto ya sea mineral, inorgánico u orgánico y no listados específicamente por su nombre de sustancia, están cubiertos por Particulates Not Otherwise Regulated (PNOR) cuyo límite es de 5 mg/m³ para la fracción respirable y 15 mg/m³ para el polvo total. Se han establecido Directrices de exposición ACGIH de menos de 3 mg/m³ (respirable) y de 10 mg/m³ (inhalaable) para Particulates (insolubles / poco solubles) Not Otherwise Specified (PNOS).

Medidas de ingeniería : Utilizar una ventilación adecuada para mantener las exposiciones bajo los límites de exposición recomendados. Vea la ficha de datos de seguridad.

Protección personal

Protección respiratoria : Utilizar ventilación local en caso de formación de polvos. Una buena ventilación general es adecuada en ausencia de polvos.

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Protección de las manos	:	
Observaciones	:	Caucho impermeable como neopreno, nitrilo, caucho natural, caucho de butilo, PVC o teflón.
Protección de los ojos	:	Siga las directrices de las Compañía en ausencia de polvo.
Protección de la piel y del cuerpo	:	Use ropa protectora, incluyendo camisas de manga larga y guantes, para evitar el contacto de la piel. Lave bien la ropa antes de volverla a usar.
Medidas de higiene	:	Lavar con agua caliente y jabón.

SECCIÓN 9. PROPIEDADES FÍSICAS Y QUÍMICAS

Aspecto	:	Forma sólida
Color	:	varios
Olor	:	ninguno(a)
Umbral olfativo	:	No disponible
pH	:	no determinado
Punto de fusión	:	no determinado
Punto de ebullición	:	no determinado
Punto de inflamación	:	no se inflama
Tasa de evaporación	:	No volátil
Inflamabilidad (sólido, gas)	:	no determinado
Autoencendido	:	No determinado
Índice de combustibilidad	:	no determinado
Límite superior de explosividad / Límites de inflamabilidad superior	:	No aplicable
Límites inferior de explosividad / Límites de inflamabilidad inferior	:	No aplicable
Presión de vapor	:	No aplicable

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Densidad relativa del vapor	: No aplicable
Densidad relativa	: No determinado
Densidad	: no determinado
Densidad aparente	: no determinado
Solubilidad(es)	
Solubilidad en agua	: insoluble
Solubilidad en otros disolventes	: No determinado
Coeficiente de reparto n-octanol/agua	: sin datos disponibles
Temperatura de auto-inflamación	: No aplicable
Temperatura de descomposición	: sin datos disponibles
Viscosidad	
Viscosidad, dinámica	: No aplicable
Viscosidad, cinemática	: No aplicable
Tiempo de escorrientía	: No aplicable
Propiedades explosivas	: sin datos disponibles
Propiedades comburentes	: No determinado
Punto de sublimación	: no determinado
Energía mínima de ignición	: No determinado
Tamaño de partícula	: No determinado

SECCIÓN 10. ESTABILIDAD Y REACTIVIDAD

Reactividad	: No se conoce reacciones peligrosas bajo condiciones de uso normales.
Estabilidad química	: Estable
Posibilidad de reacciones peligrosas	: No se conoce reacciones peligrosas bajo condiciones de uso normales. Estable

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Condiciones que deben evitarse : Ninguna conocida.

Materiales incompatibles : Agua

Productos de descomposición peligrosos : No se descompone si se almacena y aplica como se indica.

SECCIÓN 11. INFORMACIÓN TOXICOLÓGICA

Información sobre posibles vías de exposición

Ninguna conocida.

Toxicidad aguda

Producto:

Toxicidad oral aguda : Observaciones: No aplicable

Toxicidad aguda por inhalación : CL50 (Rata, machos y hembras): > 2.08 mg/l
Tiempo de exposición: 4 h
Prueba de atmosfera: polvo/niebla
Método: Directrices de ensayo 403 del OECD
BPL: si
Valoración: La sustancia o mezcla no presenta toxicidad aguda por inhalación

Toxicidad cutánea aguda : DL50 (Conejo): > 5,000 mg/kg
Método: Otro
BPL: no

Corrosión o irritación cutáneas

Producto:

Especies: Conejo
Tiempo de exposición: 4 h
Método: Directrices de ensayo 404 del OECD
Resultado: No irrita la piel
BPL: si

Lesiones o irritación ocular graves

Producto:

Especies: Conejo
Resultado: No irrita los ojos
Tiempo de exposición: 24 h
Método: Directrices de ensayo 405 del OECD
BPL: si

Sensibilización respiratoria o cutánea

Producto:

Observaciones: sin datos disponibles

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Mutagenicidad en células germinales

Producto:

- Genotoxicidad in vitro : Tipo de Prueba: Prueba de Ames
Sistema experimental: Salmonella typhimurium
Concentración: 667 - 10000 µg/plate
Activación metabólica: con o sin activación metabólica
Método: Directrices de ensayo 471 del OECD
Resultado: negativo
BPL: si
- Tipo de Prueba: Estudio in vitro de la mutación génica en células de mamífero
Sistema experimental: células del ovario del hámster chino
Concentración: 10 - 500 µg/ml
Activación metabólica: con o sin activación metabólica
Método: Directrices de ensayo 476 del OECD
Resultado: negativo
BPL: si
- Tipo de Prueba: Prueba de aberración cromosomal in vitro
Sistema experimental: células del ovario del hámster chino
Concentración: 38 - 1000 µg/ml
Activación metabólica: con o sin activación metabólica
Método: Directrices de ensayo 473 del OECD
Resultado: negativo
BPL: si
- Genotoxicidad in vivo : Tipo de Prueba: Ensayo citogenético
Especies: Rata (macho)
Cepa: Fischer F344
Vía de aplicación: Inhalación
Tiempo de exposición: 13 w, 6 h/d, 5 d/wk
Dosis: ca. 50 mg/m³
Método: Otro
Resultado: negativo
BPL: No hay información disponible.
- Mutagenicidad en células germinales - Valoración : Las pruebas in vitro no mostraron efectos mutágenos, Las pruebas in vivo no demostraron efectos mutágenos

Carcinogenicidad

Producto:

Especies: Rata, (machos y hembras)
Vía de aplicación: oral (alimento)
Tiempo de exposición: 103 w
Dosis: 1,25 - 2,5 - 5 % in diet
Grupo: si
Frecuencia del tratamiento: daily
NOAEL: aprox. 1,800 - 3,000 mg/kg pc/día
Método: Directrices de ensayo 453 del OECD

FICHA DE DATOS DE SEGURIDAD

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Resultado: negativo

BPL: No hay información disponible.

Carcinogenicidad - Valoración : No clasificable como agente carcinógeno para el humano.

IARC

No se identifica ningún componente de este producto, que presente niveles mayores que o igual a 0,1% como agente carcinógeno humano probable, posible o confirmado por la (IARC) Agencia Internacional de Investigaciones sobre Carcinógenos.

OSHA

Ningún componente de este producto está presente en niveles superiores o iguales al 0,1 % por lo que no se encuentra en la lista de OSHA de carcinógenos regulados.

NTP

En este producto no se identifica ningún componente, que presente niveles mayores que o iguales a 0.1%, como agente carcinógeno conocido o anticipado por el (NTP) Programa Nacional de Toxicología.

Toxicidad para la reproducción

Producto:

Efectos en la fertilidad : Especies: Rata, machos y hembras
Cepa: Sprague-Dawley
Vía de aplicación: oral (alimento)
Dosis: 497 (m), 509 (f) mg/kg
Toxicidad general padres: NOAEL: 497 peso corporal en mg/kg
Toxicidad general F1: NOAEL: 497 peso corporal en mg/kg
Método: Directrices de ensayo 415 del OECD
BPL: no

Efectos en el desarrollo fetal : Tipo de Prueba: Pre-natal
Especies: Rata
Cepa: Wistar
Vía de aplicación: oral (sonda)
Dosis: 13,5 - 62,7 - 292 - 1350mg/kg
Toxicidad general materna: NOAEL: 1,350 peso corporal en mg/kg
Teratogenicidad: NOAEL: 1,350 peso corporal en mg/kg
Método: Directrices de ensayo 414 del OECD
BPL: no

Toxicidad para la reproducción - Valoración : No hay evidencia de efectos adversos sobre la función sexual y la fertilidad, o sobre el desarrollo, basado en experimentos con animales.
No se esperan efectos teratogénicos.

Toxicidad específica en determinados órganos (stot) - exposición única

Producto:

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Valoración: La sustancia o mezcla no se clasifica como tóxica específica de órganos diana, exposición única.

Toxicidad específica en determinados órganos (stot) - exposiciones repetidas

Producto:

Valoración: La sustancia o mezcla no se clasifica como tóxica específica de órganos diana, exposición repetida.

Toxicidad por dosis repetidas

Producto:

Especies: Rata, machos y hembras
NOAEL: 4000 - 4500 mg/kg pc/día
Vía de aplicación: oral (alimento)
Tiempo de exposición: 13 w
Nombre de exposiciones: continuously
Dosis: 0,5 - 2 - 6,7 % SI in diet
Grupo: si
Método: Directrices de ensayo 408 del OECD
BPL: si

Especies: Rata, machos y hembras
NOAEL: 1,3 mg/m³
LOAEL: 0.0059 mg/l
Vía de aplicación: Inhalación
Tiempo de exposición: 13 w
Nombre de exposiciones: 6 hr/day; 5 days a week
Dosis: 1,3 - 5,9 - 31 mg/m³
Grupo: si
Método: Directrices de ensayo 413 del OECD
BPL: si

Vía de aplicación: Contacto con la piel
Observaciones: Esta información no está disponible.

Toxicidad por aspiración

Producto:

Ninguna clasificación de toxicidad por aspiración

Experiencia con exposición de seres humanos

Producto:

Información general : Los posibles síntomas conocidos son los derivados del etiquetado (ver apartado 2).

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SECCIÓN 12. INFORMACIÓN ECOLÓGICA

Ecotoxicidad

Producto:

- Toxicidad para los peces : LL0 (Brachydanio rerio (pez cebra)): 10,000 mg/l
Punto final: mortalidad
Tiempo de exposición: 96 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 203 del OECD
BPL: si
Observaciones: La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para las dafnias y otros invertebrados acuáticos : EL50 (Daphnia magna (Pulga de mar grande)): > 1,000 mg/l
Punto final: Inmovilización
Tiempo de exposición: 24 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 202 del OECD
BPL: si
Observaciones: La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para las algas/plantas acuáticas : EL50 (Desmodesmus subspicatus (alga verde)): > 10,000 mg/l
Punto final: Tasa de crecimiento
Tiempo de exposición: 72 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 201 del OECD
BPL: si
Observaciones: Los datos han sido establecidos por analogía a un producto de composición similar.
La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para los peces (Toxicidad crónica) : NOEC: 86.03 mg/l
Tiempo de exposición: 30 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.
- Toxicidad para las dafnias y otros invertebrados acuáticos (Toxicidad crónica) : NOEC: 34.223 mg/l
Tiempo de exposición: 30 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.

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Toxicidad del sedimento : CL50: 148.41 mg/l
Duración: 14 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.

Persistencia y degradabilidad

Producto:

Biodegradabilidad : Observaciones: No aplicable

Potencial de bioacumulación

sin datos disponibles

Movilidad en el suelo

sin datos disponibles

Otros efectos adversos

Producto:

Vías de propagación en el medio ambiente y destino final de la sustancia : Observaciones: No disponible

Información ecológica complementaria : Utilizando el producto adecuadamente y conforme a las aplicaciones previstas, según nuestros conocimientos actuales y nuestras experiencias, no son de esperar efectos perjudiciales para el medio ambiente.

SECCIÓN 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

Métodos de eliminación.

RCRA - Acta de Autorización de la Conservación y Recuperación de los Recursos : Este producto, si se desecha tal como se vende no es un desecho peligros Federal RCRA.

Número de identificación de residuo : NONE

Residuos : Deseche este producto de acuerdo con todas las reglamentaciones locales, estatales y federales aplicables.

Envases contaminados : Eliminar como producto no usado.

SECCIÓN 14. INFORMACIÓN RELATIVA AL TRANSPORTE

DOT

Mercancías no peligrosas

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IATA

Mercancías no peligrosas

IMDG

Mercancías no peligrosas

SECCIÓN 15. INFORMACIÓN REGLAMENTARIA

CERCLA Cantidad Reportable

Este material no contiene ningún componente con una cantidad reportada (RQ) para CERCLA.

SARA 304 Sustancias extremadamente peligrosas Cantidad Reportable

Este material no contiene ningún componente en la sección 304 EHS RQ .

Cantidad de planeación de umbral SARA 302 Sustancias Extremadamente peligrosas

Este material no contiene componentes con una sección 302 EHS TPQ.

SARA 311/312 Peligros : No son peligros según la legislación americana SARA

SARA 313 : Este material no contiene ningún componente químico con los conocidos números CAS que exceden el umbral de los niveles reportados (De Minimis) establecidos por SARA título III, sección 313.

Ley del Agua Limpia

Este producto no contiene los siguientes contaminantes tóxicos enumerados en la sección 307 de la Ley de agua limpia de los EE.UU.

Los componentes de este producto están presentados en los inventarios siguientes:

TSCA : Todas las sustancias enumeradas como activas en el inventario TSCA

SECCIÓN 16. OTRA INFORMACIÓN

Otros datos

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

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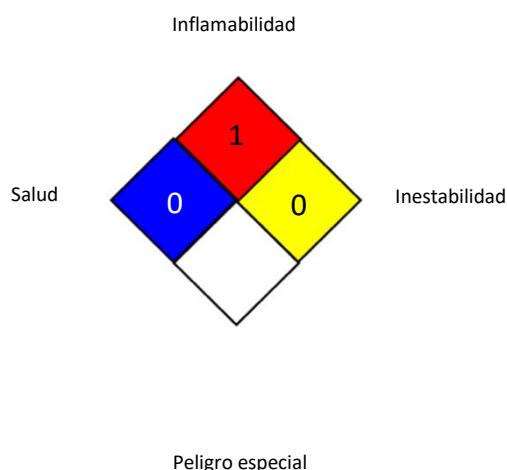
Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

NFPA 704:



Texto completo de otras abreviaturas

AIIC - Inventario de productos químicos industriales de Australia; ASTM - Sociedad Estadounidense para la Prueba de Materiales; bw - Peso corporal; CERCLA - Ley Integral de Respuesta, Compensación y Responsabilidad Civil Ambiental; CMR - Carcinógeno, mutágeno o tóxico para la reproducción; DIN - Norma del Instituto Alemán de Normalización; DOT - Departamento de Transporte; DSL - Lista de sustancias domésticas (Canadá); ECx - Concentración asociada con respuesta de tasa de crecimiento x%; EHS - Sustancia extremadamente peligrosa; ELx - Tasa de carga asociada con respuesta x%; EmS - Procedimiento de emergencia; ENCS - Sustancias Químicas Existentes y Nuevas (Japón); ErCx - Concentración asociada con respuesta de tasa de crecimiento x%; ERG - Guía de respuesta ante emergencias; GHS - Sistema Globalmente Armonizado; GLP - Buena práctica de laboratorio; HMIS - Sistema de Identificación de Materiales Peligrosos; IARC - Agencia Internacional para la investigación del cáncer; IATA - Asociación Internacional de Transporte Aéreo; IBC - Código internacional para la construcción y equipamiento de Embarcaciones que transportan químicos peligrosos a granel; IC50 - Concentración inhibitoria máxima media; ICAO - Organización de Aviación Civil Internacional; IECSC - Inventario de Sustancias Químicas en China; IMDG - Código Marítimo Internacional de Mercancías Peligrosas; IMO - Organización Marítima Internacional; ISHL - Ley de Seguridad e Higiene Industrial (Japón); ISO - Organización Internacional para la Normalización; KECI - Inventario de Químicos Existentes de Corea; LC50 - Concentración letal para 50% de una población de prueba; LD50 - Dosis letal para 50% de una población de prueba (Dosis letal mediana); MARPOL - Convenio Internacional para prevenir la Contaminación en el mar por los buques; MSHA - Administración de seguridad y salud minera; n.o.s. - N.E.P.: No especificado en otra parte; NFPA - Asociación Nacional de Protección contra el Fuego; NO(A)EC - Concentración de efecto (adverso) no observable; NO(A)EL - Nivel de efecto (adverso) no observable; NOELR - Tasa de carga de efecto no observable; NTP - Programa Toxicológico Nacional; NZIoC - Inventario de Químicos de Nueva Zelanda; OECD - Organización para la Cooperación y el Desarrollo Económico; OPPTS - Oficina para la Seguridad Química y Prevención de Contaminación; PBT - Sustancia persistente, bioacumulativa y tóxica; PICCS - Inventario Filipino de Químicos y Sustancias Químicas; (Q)SAR - Relación estructura-actividad (cuantitativa); RCRA - Ley de Conservación y Recuperación de Recursos; REACH - Reglamento (CE) n.º 1907/2006 del Parlamento Europeo y del Consejo relativo al registro, la evaluación, la autorización y la restricción de las sustancias químicas; RQ - Cantidad reportable;

FICHA DE DATOS DE SEGURIDAD

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SADT - Temperatura de descomposición autoacelerada; SARA - Ley de Enmiendas y Reautorización de Superfondos; SDS - Ficha de datos de seguridad; TCSI - Inventario de Sustancias Químicas de Taiwán; TSCA - Ley para el Control de Sustancias Tóxicas (Estados Unidos); UN - Naciones Unidas; UNRTDG - Recomendaciones de las Naciones Unidas sobre el transporte de mercancías peligrosas; vPvB - Muy persistente y muy bioacumulativo

Fecha de revisión : 04/20/2021

Esta información corresponde al estado actual de nuestros conocimientos y está destinada a facilitar una descripción general de nuestros productos y sus posibles aplicaciones. No ofrecemos ninguna garantía, expresa o implícita, en cuanto a la exactitud de la información, adecuación, suficiencia o exención de fallas, y no asume ninguna responsabilidad en relación con cualquier uso de dicha información.

Cualquier usuario de este producto es responsable de determinar la idoneidad para su aplicación particular. NO SE DA NINGUNA GARANTÍA EXPRESA O IMPLÍCITA DE NINGUN PRODUCTO O SERVICIO, SOBRE LA COMERCIALIZACIÓN, APTITUD, IDONEIDAD PARA UNA FINALIDAD ESPECÍFICA O DE OTRO TIPO. Lo incluido en esta información no representa renuncia alguna a ninguno de los Términos y Condiciones Generales de venta, a menos que se acuerde lo contrario por escrito. Deben respetarse los derechos de propiedad intelectual o industrial existentes. Debido a las posibles modificaciones en nuestros productos y a la aplicación de las Leyes y Reglamentos Nacionales e Internacionales, el estatus normativo de nuestros productos puede cambiar sin previo aviso. Las Fichas de Datos de Seguridad, proporcionan información sobre las medidas de seguridad que deberán ser observadas durante la manipulación o almacenamiento de nuestros productos. Estas se encuentran disponibles a petición del interesado, y serán proporcionadas en conformidad con la ley aplicable. Es obligación del usuario, obtener y consultar la información en la Ficha de Datos de Seguridad antes de manipular cualquiera de estos productos. Para cualquier información adicional, póngase en contacto con nosotros.

US / ES

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name INSTA-TEST LOW RANGE PHOSPHATE TEST STRIPS

Other means of identification

Product Code(s) 3021

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use). Use as a laboratory reagent.

Details of the supplier of the safety data sheet

Manufacturer Address
LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620 USA
T 410-778-3100
F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW

Appearance White plastic strip with multiple test pads	Physical state No information available	Odor Odorless
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Precautionary Statements - Prevention

Keep out of the reach of children.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED Drink 1 or 2 glasses of water Call a physician immediately

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is exempt from the MSDS requirement since it is defined as an "article" per 29 CFR 1910.1200(b)(6)(v). "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

4. FIRST AID MEASURES

First Aid Measures

General advice	No hazards which require special first aid measures.
Eye contact	Rinse thoroughly with water as necessary.
Skin contact	Wash skin with soap and water.
Inhalation	Not Applicable.
Ingestion	Consult a physician. White plastic strip is indigestible, may cause gastrointestinal discomfort if many have been swallowed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and material for containment and cleaning up

Methods for containment	Not Applicable.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product.
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Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
Incompatible Products	Not Applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parametersAppropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Hygiene Measures Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIESInformation on basic physical and chemical properties

Physical state	No information available		
Appearance	White plastic strip with multiple test pads	Odor	Odorless

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate		
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific gravity	No information available	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Stability	Stable.
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Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Not Applicable.
Hazardous decomposition products	None known.

11. TOXICOLOGICAL INFORMATION

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Information on likely routes of exposure

Component Information

Information on toxicological effects

Chronic toxicity No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of waste product or used containers according to local regulations. This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

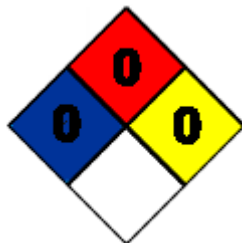
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations**CPSC (Consumer Product Safety Commission) - Specially Regulated Substances****16. OTHER INFORMATION**

<u>NFPA</u>	Health hazard 0	Flammability 0	Instability 0	Physical and Chemical Hazards N/A
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Health Hazard	0
Fire Hazard	0
Reactivity	0

Prepared by
Issuing Date
Revision Date
Reason for revision

Regulatory Affairs Department
Jun-01-2015
Sep-16-2015
No changes MSDS was reviewed per Canada request - Canada requires MSDS to be dated within 3 years of the request

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet

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Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

SECTION 1. IDENTIFICATION

Identification of the company:

Uline, Inc.
12575 Uline Drive
Pleasant Prarie, WI 53158
Telephone No.: 800-295-5510

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Material number:

299037

CAS number:

7631-86-9

Chemical family:

approx. 94 - 96 % silica, approx. 4 - 6 % water of constitution and approx. 0,3 % water-soluble components

Primary product use:

Adsorbing medium for technical applications

Primary product use:

Packaging

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

This product is considered an "Article" by the US Department of Labor, Occupational Safety & Health Administration (OSHA) under OSHA 29 CFR 1910.1200(c) and is exempt from the requirements of a Safety Data Sheet (SDS) found in the Hazard Communication Standard, 29 CFR 1910.1200(b)(v).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : approx. 94 - 96 % silica, approx. 4 - 6 % water of constitution and approx. 0,3 % water-soluble components

Components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4. FIRST AID MEASURES

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General advice	: none
If inhaled	: No special precautions required. In case of irritation when dust is inhaled, provide for plenty of fresh air.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	: No special precautions required. If large quantities of this material are swallowed, call a physician immediately. Call your local Poison Control Center (In the U.S. call 1-800-222-1222).
Most important symptoms and effects, both acute and delayed	: The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: None known.
Further information	: Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Special protective equipment for firefighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Do not breathe dust. No special precautions required.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Take up uncontaminated material and pass on for further processing. Take up contaminated material by mechanical means, load

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into clean containers, and dispose of in accordance with legal regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special precautions required.
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
- Conditions for safe storage : Keep container tightly closed and dry.
- Further information on storage conditions : Store in a dry place.
- Materials to avoid : No materials to be especially mentioned.
- Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m³ for respirable fraction and 15 mg/m³ for total dust. ACGIH exposure guidelines of less than 3 mg/m³ (respirable) and 10 mg/m³ (inhalable) have been established for particles (insoluble/poorly soluble) not otherwise specified (PNOS).

- Engineering measures** : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.

Personal protective equipment

- Respiratory protection : Use local exhaust if dusting occurs. Good general ventilation is adequate in the absence of dusts.
- Hand protection
Remarks : Impervious rubber such as neoprene, nitrile, natural rubber, butyl rubber, PVC, or teflon.
- Eye protection : Follow facility guidelines in the absence of dusts.
- Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.
- Hygiene measures : Wash off with warm water and soap.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid form
Colour	: various
Odour	: none
Odour Threshold	: not available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Flash point	: does not flash
Evaporation rate	: Non-Volatile
Flammability (solid, gas)	: not determined
Self-ignition	: not tested.
Burning number	: not determined
Upper explosion limit / upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not tested.
Density	: not determined
Bulk density	: not determined
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: no data available

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Auto-ignition temperature	: Not applicable
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.
Sublimation point	: not determined
Minimum ignition energy	: not tested.
Particle size	: not tested.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	: None known.
Incompatible materials	: Water
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

None known.

Acute toxicity

Product:

Acute oral toxicity	: Remarks: Not applicable
Acute inhalation toxicity	: LC50 (Rat, male and female): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

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GLP: yes

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: Other
GLP: no

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: no data available

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 667 - 10000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster ovary cells
Concentration: 10 - 500 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells

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Concentration: 38 - 1000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Rat (male)
Strain: Fischer F344
Application Route: Inhalation
Exposure time: 13 w, 6 h/d, 5 d/wk
Dose: ca. 50 mg/m³
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Product:

Species: Rat, (male and female)
Application Route: oral (feed)
Exposure time: 103 w
Dose: 1,25 - 2,5 - 5 % in diet
Group: yes
Frequency of Treatment: daily
NOAEL: ca. 1,800 - 3,000 mg/kg bw/day
Method: OECD Test Guideline 453
Result: negative
GLP: No information available.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Effects on fertility : Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)

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Dose: 497 (m), 509 (f) mg/kg
General Toxicity - Parent: NOAEL: 497 mg/kg body weight
General Toxicity F1: NOAEL: 497 mg/kg body weight
Method: OECD Test Guideline 415
GLP: no

Effects on foetal
development

: Test Type: Pre-natal
Species: Rat
Strain: wistar
Application Route: oral (gavage)
Dose: 13,5 - 62,7 - 292 - 1350mg/kg
General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight
Teratogenicity: NOAEL: 1,350 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no

Reproductive toxicity -
Assessment

: No evidence of adverse effects on sexual function and fertility,
or on development, based on animal experiments.
No teratogenic effects to be expected.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Species: Rat, male and female
NOAEL: 4000 - 4500 mg/kg bw/day
Application Route: oral (feed)
Exposure time: 13 w
Number of exposures: continuously
Dose: 0,5 - 2 - 6,7 % SI in diet
Group: yes
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, male and female
NOAEL: 1,3 mg/m³
LOAEL: 0.0059 mg/l
Application Route: Inhalation
Exposure time: 13 w
Number of exposures: 6 hr/day; 5 days a week
Dose: 1,3 - 5,9 - 31 mg/m³
Group: yes

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Method: OECD Test Guideline 413
GLP: yes

Application Route: Skin contact
Remarks: This information is not available.

Aspiration toxicity

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LL0 (Brachydanio rerio (zebrafish)): 10,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 203
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l
End point: Immobilization
Exposure time: 24 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal

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concentration.

Toxicity to fish (Chronic toxicity) : NOEC: 86.03 mg/l
Exposure time: 30 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 34.223 mg/l
Exposure time: 30 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Sediment toxicity : LC50: 148.41 mg/l
Duration: 14 d
Method: Other
GLP: no
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Product:

Environmental fate and pathways : Remarks: not available

Additional ecological information : According to experience and to the information currently available, the product has no harmful effects on the environment if used correctly as intended.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

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Authorization Act

Waste Code : NONE

Waste from residues : Dispose of this product in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

SECTION 16. OTHER INFORMATION

Further information

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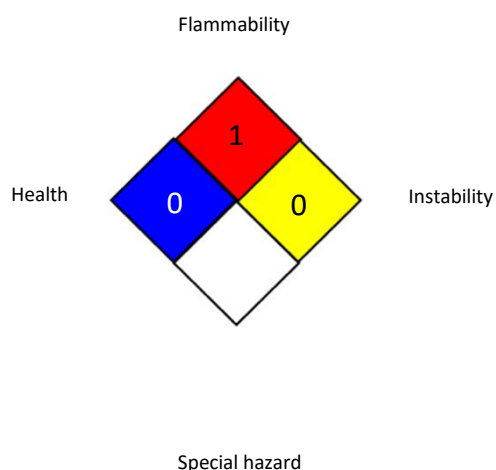
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NFPA 704:



Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04/20/2021

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. We make no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of our products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of our General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing our products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact us.

US / EN

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Página 1

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SECCIÓN 1. IDENTIFICACIÓN

Identificación de la compañía:

Uline, Inc.
12575 Uline Drive
Pleasant Prairie, WI 53158
Núm. Teléfono: 800-295-5510

Nº telf. de emergencia: +1 800-424-9300 CHEMTREC

Nombre comercial:

PKT SILICA GEL5G G2 27X70 1250/P S-3905

Número de material:

299037

Número CAS:

7631-86-9

Familia química:

aprox. 94 - 96% dióxido de silicio, aprox. 4 - 6% agua de constitución y un 0,3% partes hidrosolubles

Uso primario del producto:

Agente de adsorción para aplicaciones técnicas

Uso primario del producto:

Envases

SECCIÓN 2. IDENTIFICACIÓN DE LOS PELIGROS

Clasificación GHS de acuerdo con Norma de Comunicación de Riesgos de OSHA (29 CFR 1910.1200)

No es una sustancia o mezcla peligrosa.

Elementos de etiquetado GHS

No es una sustancia o mezcla peligrosa.

Otros peligros

Este producto es considerado un "Artículo" por el Departamento de trabajo de los EE.UU., Administración de Seguridad y Salud Ocupacional (OSHA según OSHA 29 CFR 1910. 1200(c) y esta exento de los requisitos de la hoja de datos de seguridad (SDS) que se encuentra en la Comunicación de Peligros Estándar, 29 CFR 1910. 1200(b)(v).

SECCIÓN 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

Sustancia / Mezcla : Sustancia

Naturaleza química : aprox. 94 - 96% dióxido de silicio, aprox. 4 - 6% agua de constitución y un 0,3% partes hidrosolubles

Componentes

Este material no está considerado como peligroso por el Estándar de Comunicación de Riesgos de OSHA (29 CFR 1910.1200).

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SECCIÓN 4. PRIMEROS AUXILIOS

- Recomendaciones generales : ninguno(a)
- Si es inhalado : No se requieren precauciones especiales.
Si al respirar el polvo se presentan irritaciones, proporcionar al afectado aire fresco.
- En caso de contacto con la piel : Lávese inmediatamente con jabón y agua abundante.
- En caso de contacto con los ojos : Enjuagar inmediatamente con abundante agua, también debajo de los párpados, al menos durante 15 minutos.
- Por ingestión : No se requieren precauciones especiales.
Si una grande cantidad de este material se ha tragado, llamar inmediatamente un médico.
Llame al Centro de Control de Envenenamientos local (En los EE.UU., llame al 1-800-222-1222).
- Principales síntomas y efectos, agudos y retardados : Los posibles síntomas conocidos son los derivados del etiquetado (ver apartado 2).
No se conocen síntomas adicionales.
- Notas para el médico : Tratar sintomáticamente.

SECCIÓN 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

- Medios de extinción apropiados : Usar medidas de extinción que sean apropiadas a las circunstancias del local y a sus alrededores.
- Medios de extinción no apropiados : Chorro de agua de gran volumen
- Peligros específicos en la lucha contra incendios : Ninguna conocida.
- Otros datos : Usar ropa de protección completa y equipo de respiración autónomo de presión positiva aprobado por NIOSH/MSHA.
- Equipo de protección especial para el personal de lucha contra incendios : Utilice un aparato respiratorio autónomo de presión positiva aprobado además del equipo de lucha contra incendios estándar.

SECCIÓN 6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL

- Precauciones personales, equipo de protección y procedimientos de : No respirar el polvo.
No se requieren precauciones especiales.

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emergencia

Precauciones relativas al medio ambiente : No se requieren precauciones especiales medioambientales.

Métodos y material de contención y de limpieza : Recoger material no ensuciado y aportarlo para su utilización. Recoger el material contaminado por medios mecánicos(>,<)> depositarlo en contenedores limpios y eliminar de acuerdo con la normativa legal.

SECCIÓN 7. MANIPULACIÓN Y ALMACENAMIENTO

Indicaciones para la protección contra incendio y explosión : No se requieren precauciones especiales.

Consejos para una manipulación segura : Manipular con las precauciones de higiene industrial adecuadas, y respetar las prácticas de seguridad.

Condiciones para el almacenaje seguro : Manténgase el recipiente bien cerrado y en lugar seco.

Información complementaria sobre las condiciones de almacenamiento : Almacenar en un lugar seco.

Materias que deben evitarse : Ningún material a mencionar especialmente.

Más información acerca de la estabilidad durante el almacenamiento : Estable bajo las condiciones de almacenamiento recomendadas.

SECCIÓN 8. CONTROLES DE EXPOSICIÓN/ PROTECCIÓN INDIVIDUAL

Componentes con valores límite ambientales de exposición profesional.

Todo polvo inerte o molesto ya sea mineral, inorgánico u orgánico y no listados específicamente por su nombre de sustancia, están cubiertos por Particulates Not Otherwise Regulated (PNOR) cuyo límite es de 5 mg/m³ para la fracción respirable y 15 mg/m³ para el polvo total. Se han establecido Directrices de exposición ACGIH de menos de 3 mg/m³ (respirable) y de 10 mg/m³ (inhalaable) para Particulates (insolubles / poco solubles) Not Otherwise Specified (PNOS).

Medidas de ingeniería : Utilizar una ventilación adecuada para mantener las exposiciones bajo los límites de exposición recomendados. Vea la ficha de datos de seguridad.

Protección personal

Protección respiratoria : Utilizar ventilación local en caso de formación de polvos. Una buena ventilación general es adecuada en ausencia de polvos.

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Protección de las manos	
Observaciones	: Caucho impermeable como neopreno, nitrilo, caucho natural, caucho de butilo, PVC o teflón.
Protección de los ojos	: Siga las directrices de las Compañía en ausencia de polvo.
Protección de la piel y del cuerpo	: Use ropa protectora, incluyendo camisas de manga larga y guantes, para evitar el contacto de la piel. Lave bien la ropa antes de volverla a usar.
Medidas de higiene	: Lavar con agua caliente y jabón.

SECCIÓN 9. PROPIEDADES FÍSICAS Y QUÍMICAS

Aspecto	: Forma sólida
Color	: varios
Olor	: ninguno(a)
Umbral olfativo	: No disponible
pH	: no determinado
Punto de fusión	: no determinado
Punto de ebullición	: no determinado
Punto de inflamación	: no se inflama
Tasa de evaporación	: No volátil
Inflamabilidad (sólido, gas)	: no determinado
Autoencendido	: No determinado
Índice de combustibilidad	: no determinado
Límite superior de explosividad / Límites de inflamabilidad superior	: No aplicable
Límites inferior de explosividad / Límites de inflamabilidad inferior	: No aplicable
Presión de vapor	: No aplicable

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Densidad relativa del vapor	:	No aplicable
Densidad relativa	:	No determinado
Densidad	:	no determinado
Densidad aparente	:	no determinado
Solubilidad(es)		
Solubilidad en agua	:	insoluble
Solubilidad en otros disolventes	:	No determinado
Coeficiente de reparto n-octanol/agua	:	sin datos disponibles
Temperatura de auto-inflamación	:	No aplicable
Temperatura de descomposición	:	sin datos disponibles
Viscosidad		
Viscosidad, dinámica	:	No aplicable
Viscosidad, cinemática	:	No aplicable
Tiempo de escorrientía	:	No aplicable
Propiedades explosivas	:	sin datos disponibles
Propiedades comburentes	:	No determinado
Punto de sublimación	:	no determinado
Energía mínima de ignición	:	No determinado
Tamaño de partícula	:	No determinado

SECCIÓN 10. ESTABILIDAD Y REACTIVIDAD

Reactividad	:	No se conoce reacciones peligrosas bajo condiciones de uso normales.
Estabilidad química	:	Estable
Posibilidad de reacciones peligrosas	:	No se conoce reacciones peligrosas bajo condiciones de uso normales. Estable

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Condiciones que deben evitarse : Ninguna conocida.

Materiales incompatibles : Agua

Productos de descomposición peligrosos : No se descompone si se almacena y aplica como se indica.

SECCIÓN 11. INFORMACIÓN TOXICOLÓGICA

Información sobre posibles vías de exposición

Ninguna conocida.

Toxicidad aguda

Producto:

Toxicidad oral aguda : Observaciones: No aplicable

Toxicidad aguda por inhalación : CL50 (Rata, machos y hembras): > 2.08 mg/l
Tiempo de exposición: 4 h
Prueba de atmosfera: polvo/niebla
Método: Directrices de ensayo 403 del OECD
BPL: si
Valoración: La sustancia o mezcla no presenta toxicidad aguda por inhalación

Toxicidad cutánea aguda : DL50 (Conejo): > 5,000 mg/kg
Método: Otro
BPL: no

Corrosión o irritación cutáneas

Producto:

Especies: Conejo
Tiempo de exposición: 4 h
Método: Directrices de ensayo 404 del OECD
Resultado: No irrita la piel
BPL: si

Lesiones o irritación ocular graves

Producto:

Especies: Conejo
Resultado: No irrita los ojos
Tiempo de exposición: 24 h
Método: Directrices de ensayo 405 del OECD
BPL: si

Sensibilización respiratoria o cutánea

Producto:

Observaciones: sin datos disponibles

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Mutagenicidad en células germinales

Producto:

- Genotoxicidad in vitro :
- Tipo de Prueba: Prueba de Ames
 - Sistema experimental: Salmonella typhimurium
 - Concentración: 667 - 10000 µg/plate
 - Activación metabólica: con o sin activación metabólica
 - Método: Directrices de ensayo 471 del OECD
 - Resultado: negativo
 - BPL: si
- Tipo de Prueba: Estudio in vitro de la mutación génica en células de mamífero
- Sistema experimental: células del ovario del hámster chino
- Concentración: 10 - 500 µg/ml
- Activación metabólica: con o sin activación metabólica
- Método: Directrices de ensayo 476 del OECD
- Resultado: negativo
- BPL: si
- Tipo de Prueba: Prueba de aberración cromosomal in vitro
- Sistema experimental: células del ovario del hámster chino
- Concentración: 38 - 1000 µg/ml
- Activación metabólica: con o sin activación metabólica
- Método: Directrices de ensayo 473 del OECD
- Resultado: negativo
- BPL: si
- Genotoxicidad in vivo :
- Tipo de Prueba: Ensayo citogenético
 - Especies: Rata (macho)
 - Cepa: Fischer F344
 - Vía de aplicación: Inhalación
 - Tiempo de exposición: 13 w, 6 h/d, 5 d/wk
 - Dosis: ca. 50 mg/m³
 - Método: Otro
 - Resultado: negativo
 - BPL: No hay información disponible.
- Mutagenicidad en células germinales - Valoración :
- Las pruebas in vitro no mostraron efectos mutágenos, Las pruebas in vivo no demostraron efectos mutágenos

Carcinogenicidad

Producto:

- Especies: Rata, (machos y hembras)
- Vía de aplicación: oral (alimento)
- Tiempo de exposición: 103 w
- Dosis: 1,25 - 2,5 - 5 % in diet
- Grupo: si
- Frecuencia del tratamiento: daily
- NOAEL: aprox. 1,800 - 3,000 mg/kg pc/día
- Método: Directrices de ensayo 453 del OECD

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Resultado: negativo

BPL: No hay información disponible.

Carcinogenicidad - Valoración : No clasificable como agente carcinógeno para el humano.

IARC

No se identifica ningún componente de este producto, que presente niveles mayores que o igual a 0,1% como agente carcinógeno humano probable, posible o confirmado por la (IARC) Agencia Internacional de Investigaciones sobre Carcinógenos.

OSHA

Ningún componente de este producto está presente en niveles superiores o iguales al 0,1 % por lo que no se encuentra en la lista de OSHA de carcinógenos regulados.

NTP

En este producto no se identifica ningún componente, que presente niveles mayores que o iguales a 0.1%, como agente carcinógeno conocido o anticipado por el (NTP) Programa Nacional de Toxicología.

Toxicidad para la reproducción

Producto:

Efectos en la fertilidad : Especies: Rata, machos y hembras
Cepa: Sprague-Dawley
Vía de aplicación: oral (alimento)
Dosis: 497 (m), 509 (f) mg/kg
Toxicidad general padres: NOAEL: 497 peso corporal en mg/kg
Toxicidad general F1: NOAEL: 497 peso corporal en mg/kg
Método: Directrices de ensayo 415 del OECD
BPL: no

Efectos en el desarrollo fetal : Tipo de Prueba: Pre-natal
Especies: Rata
Cepa: Wistar
Vía de aplicación: oral (sonda)
Dosis: 13,5 - 62,7 - 292 - 1350mg/kg
Toxicidad general materna: NOAEL: 1,350 peso corporal en mg/kg
Teratogenicidad: NOAEL: 1,350 peso corporal en mg/kg
Método: Directrices de ensayo 414 del OECD
BPL: no

Toxicidad para la reproducción - Valoración : No hay evidencia de efectos adversos sobre la función sexual y la fertilidad, o sobre el desarrollo, basado en experimentos con animales.
No se esperan efectos teratogénicos.

Toxicidad específica en determinados órganos (stot) - exposición única

Producto:

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Valoración: La sustancia o mezcla no se clasifica como tóxica específica de órganos diana, exposición única.

Toxicidad específica en determinados órganos (stot) - exposiciones repetidas

Producto:

Valoración: La sustancia o mezcla no se clasifica como tóxica específica de órganos diana, exposición repetida.

Toxicidad por dosis repetidas

Producto:

Especies: Rata, machos y hembras
NOAEL: 4000 - 4500 mg/kg pc/día
Vía de aplicación: oral (alimento)
Tiempo de exposición: 13 w
Nombre de exposiciones: continuously
Dosis: 0,5 - 2 - 6,7 % SI in diet
Grupo: si
Método: Directrices de ensayo 408 del OECD
BPL: si

Especies: Rata, machos y hembras
NOAEL: 1,3 mg/m³
LOAEL: 0.0059 mg/l
Vía de aplicación: Inhalación
Tiempo de exposición: 13 w
Nombre de exposiciones: 6 hr/day; 5 days a week
Dosis: 1,3 - 5,9 - 31 mg/m³
Grupo: si
Método: Directrices de ensayo 413 del OECD
BPL: si

Vía de aplicación: Contacto con la piel
Observaciones: Esta información no está disponible.

Toxicidad por aspiración

Producto:

Ninguna clasificación de toxicidad por aspiración

Experiencia con exposición de seres humanos

Producto:

Información general : Los posibles síntomas conocidos son los derivados del etiquetado (ver apartado 2).

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

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Versión: 1 - 0 / USA

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SECCIÓN 12. INFORMACIÓN ECOLÓGICA

Ecotoxicidad

Producto:

- Toxicidad para los peces : LL0 (Brachydanio rerio (pez cebra)): 10,000 mg/l
Punto final: mortalidad
Tiempo de exposición: 96 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 203 del OECD
BPL: si
Observaciones: La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para las dafnias y otros invertebrados acuáticos : EL50 (Daphnia magna (Pulga de mar grande)): > 1,000 mg/l
Punto final: Inmovilización
Tiempo de exposición: 24 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 202 del OECD
BPL: si
Observaciones: La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para las algas/plantas acuáticas : EL50 (Desmodesmus subspicatus (alga verde)): > 10,000 mg/l
Punto final: Tasa de crecimiento
Tiempo de exposición: 72 h
Tipo de Prueba: Ensayo estático
Controlo analítico: no
Método: Directrices de ensayo 201 del OECD
BPL: si
Observaciones: Los datos han sido establecidos por analogía a un producto de composición similar.
La indicación del efecto tóxico se refiere a la concentración nominal.
- Toxicidad para los peces (Toxicidad crónica) : NOEC: 86.03 mg/l
Tiempo de exposición: 30 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.
- Toxicidad para las dafnias y otros invertebrados acuáticos (Toxicidad crónica) : NOEC: 34.223 mg/l
Tiempo de exposición: 30 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.

FICHA DE DATOS DE SEGURIDAD

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Toxicidad del sedimento : CL50: 148.41 mg/l
Duración: 14 d
Método: Otro
BPL: no
Observaciones: El resultado viene dado basándose en un enfoque SAR/AAR utilizando los modelos OECD Toolbox, DEREK, VEGA QSAR (modelos CAESAR), etc.

Persistencia y degradabilidad

Producto:

Biodegradabilidad : Observaciones: No aplicable

Potencial de bioacumulación

sin datos disponibles

Movilidad en el suelo

sin datos disponibles

Otros efectos adversos

Producto:

Vías de propagación en el medio ambiente y destino final de la sustancia : Observaciones: No disponible

Información ecológica complementaria : Utilizando el producto adecuadamente y conforme a las aplicaciones previstas, según nuestros conocimientos actuales y nuestras experiencias, no son de esperar efectos perjudiciales para el medio ambiente.

SECCIÓN 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

Métodos de eliminación.

RCRA - Acta de Autorización de la Conservación y Recuperación de los Recursos : Este producto, si se desecha tal como se vende no es un desecho peligros Federal RCRA.

Número de identificación de residuo : NONE

Residuos : Deseche este producto de acuerdo con todas las reglamentaciones locales, estatales y federales aplicables.

Envases contaminados : Eliminar como producto no usado.

SECCIÓN 14. INFORMACIÓN RELATIVA AL TRANSPORTE

DOT

Mercancías no peligrosas

FICHA DE DATOS DE SEGURIDAD

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IATA

Mercancías no peligrosas

IMDG

Mercancías no peligrosas

SECCIÓN 15. INFORMACIÓN REGLAMENTARIA

CERCLA Cantidad Reportable

Este material no contiene ningún componente con una cantidad reportada (RQ) para CERCLA.

SARA 304 Sustancias extremadamente peligrosas Cantidad Reportable

Este material no contiene ningún componente en la sección 304 EHS RQ .

Cantidad de planeación de umbral SARA 302 Sustancias Extremadamente peligrosas

Este material no contiene componentes con una sección 302 EHS TPQ.

SARA 311/312 Peligros : No son peligros según la legislación americana SARA

SARA 313 : Este material no contiene ningún componente químico con los conocidos números CAS que exceden el umbral de los niveles reportados (De Minimis) establecidos por SARA título III, sección 313.

Ley del Agua Limpia

Este producto no contiene los siguientes contaminantes tóxicos enumerados en la sección 307 de la Ley de agua limpia de los EE.UU.

Los componentes de este producto están presentados en los inventarios siguientes:

TSCA : Todas las sustancias enumeradas como activas en el inventario TSCA

SECCIÓN 16. OTRA INFORMACIÓN

Otros datos

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

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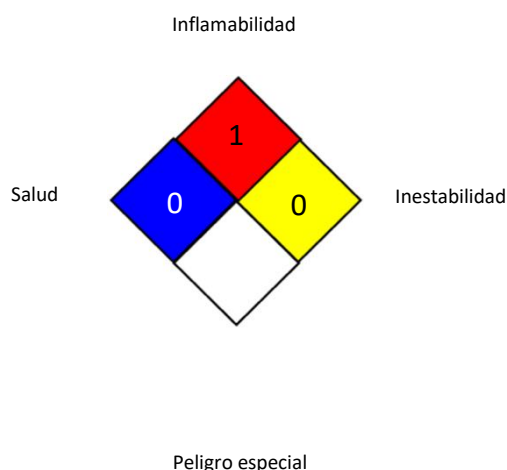
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Fecha de impresión: 06/08/2021

NFPA 704:



Texto completo de otras abreviaturas

AIIC - Inventario de productos químicos industriales de Australia; ASTM - Sociedad Estadounidense para la Prueba de Materiales; bw - Peso corporal; CERCLA - Ley Integral de Respuesta, Compensación y Responsabilidad Civil Ambiental; CMR - Carcinógeno, mutágeno o tóxico para la reproducción; DIN - Norma del Instituto Alemán de Normalización; DOT - Departamento de Transporte; DSL - Lista de sustancias domésticas (Canadá); ECx - Concentración asociada con respuesta de tasa de crecimiento x%; EHS - Sustancia extremadamente peligrosa; ELx - Tasa de carga asociada con respuesta x%; EmS - Procedimiento de emergencia; ENCS - Sustancias Químicas Existentes y Nuevas (Japón); ErCx - Concentración asociada con respuesta de tasa de crecimiento x%; ERG - Guía de respuesta ante emergencias; GHS - Sistema Globalmente Armonizado; GLP - Buena práctica de laboratorio; HMIS - Sistema de Identificación de Materiales Peligrosos; IARC - Agencia Internacional para la investigación del cáncer; IATA - Asociación Internacional de Transporte Aéreo; IBC - Código internacional para la construcción y equipamiento de Embarcaciones que transportan químicos peligrosos a granel; IC50 - Concentración inhibitoria máxima media; ICAO - Organización de Aviación Civil Internacional; IECSC - Inventario de Sustancias Químicas en China; IMDG - Código Marítimo Internacional de Mercancías Peligrosas; IMO - Organización Marítima Internacional; ISHL - Ley de Seguridad e Higiene Industrial (Japón); ISO - Organización Internacional para la Normalización; KECI - Inventario de Químicos Existentes de Corea; LC50 - Concentración letal para 50% de una población de prueba; LD50 - Dosis letal para 50% de una población de prueba (Dosis letal mediana); MARPOL - Convenio Internacional para prevenir la Contaminación en el mar por los buques; MSHA - Administración de seguridad y salud minera; n.o.s. - N.E.P.: No especificado en otra parte; NFPA - Asociación Nacional de Protección contra el Fuego; NO(A)EC - Concentración de efecto (adverso) no observable; NO(A)EL - Nivel de efecto (adverso) no observable; NOELR - Tasa de carga de efecto no observable; NTP - Programa Toxicológico Nacional; NZIoC - Inventario de Químicos de Nueva Zelanda; OECD - Organización para la Cooperación y el Desarrollo Económico; OPPTS - Oficina para la Seguridad Química y Prevención de Contaminación; PBT - Sustancia persistente, bioacumulativa y tóxica; PICCS - Inventario Filipino de Químicos y Sustancias Químicas; (Q)SAR - Relación estructura-actividad (cuantitativa); RCRA - Ley de Conservación y Recuperación de Recursos; REACH - Reglamento (CE) n.º 1907/2006 del Parlamento Europeo y del Consejo relativo al registro, la evaluación, la autorización y la restricción de las sustancias químicas; RQ - Cantidad reportable;

FICHA DE DATOS DE SEGURIDAD

PKT SILICA GEL5G G2 27X70 1250/P S-3905

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Fecha de impresión: 06/08/2021

SADT - Temperatura de descomposición autoacelerada; SARA - Ley de Enmiendas y Reautorización de Superfondos; SDS - Ficha de datos de seguridad; TCSI - Inventario de Sustancias Químicas de Taiwán; TSCA - Ley para el Control de Sustancias Tóxicas (Estados Unidos); UN - Naciones Unidas; UNRTDG - Recomendaciones de las Naciones Unidas sobre el transporte de mercancías peligrosas; vPvB - Muy persistente y muy bioacumulativo

Fecha de revisión : 04/20/2021

Esta información corresponde al estado actual de nuestros conocimientos y está destinada a facilitar una descripción general de nuestros productos y sus posibles aplicaciones. No ofrecemos ninguna garantía, expresa o implícita, en cuanto a la exactitud de la información, adecuación, suficiencia o exención de fallas, y no asume ninguna responsabilidad en relación con cualquier uso de dicha información.

Cualquier usuario de este producto es responsable de determinar la idoneidad para su aplicación particular. NO SE DA NINGUNA GARANTÍA EXPRESA O IMPLÍCITA DE NINGUN PRODUCTO O SERVICIO, SOBRE LA COMERCIALIZACIÓN, APTITUD, IDONEIDAD PARA UNA FINALIDAD ESPECÍFICA O DE OTRO TIPO. Lo incluido en esta información no representa renuncia alguna a ninguno de los Términos y Condiciones Generales de venta, a menos que se acuerde lo contrario por escrito. Deben respetarse los derechos de propiedad intelectual o industrial existentes. Debido a las posibles modificaciones en nuestros productos y a la aplicación de las Leyes y Reglamentos Nacionales e Internacionales, el estatus normativo de nuestros productos puede cambiar sin previo aviso. Las Fichas de Datos de Seguridad, proporcionan información sobre las medidas de seguridad que deberán ser observadas durante la manipulación o almacenamiento de nuestros productos. Estas se encuentran disponibles a petición del interesado, y serán proporcionadas en conformidad con la ley aplicable. Es obligación del usuario, obtener y consultar la información en la Ficha de Datos de Seguridad antes de manipular cualquiera de estos productos. Para cualquier información adicional, póngase en contacto con nosotros.

US / ES

Section 1 Identification

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665 Carbon Street
Billings, MT 59102
406-256-0990
www.homesciencetools.com

CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory and industrial use only.
Not for drug, food or household use.

Product	SUCROSE
Synonyms	Cane Sugar / Beet Sugar

Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required
Pictograms: No symbol required
Target organs: None known

GHS Classification: None required
GHS Label information: Hazard statement: None required
Precautionary statement: None required

Supplemental information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Combustible dust
Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Sucrose	57-50-1	100%	200-334-9

Section 4 First aid measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust dispersed in air is capable of creating a dust explosion when exposed to an ignition source. Avoid dispersion of dust in air.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sucrose	TWA: 10 mg/m ³ (A4)	TWA: 15 mg/m ³	TWA: 10 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Solid. White granules.	Evaporation rate (= 1): Not applicable	Partition coefficient: (n-octanol / water): Data not available
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Not applicable	Decomposition temperature: Data not available.
pH: Data not available.	Vapor pressure (mm Hg): Negligible	Viscosity: Data not available.
Melting / Freezing point: 185°C (365°F)	Vapor density (Air = 1): Data not available	Molecular formula: C ₁₂ H ₂₂ O ₁₁
Boiling point: Decomposes	Relative density (Specific gravity): 1.58	Molecular weight: 342.30
Flash point: Not applicable	Solubility(ies): Soluble in water	

Section 10 Stability and reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Oxides of carbon.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 420 mg/kg

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory effects.

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause respiratory irritation.

Ingestion: Not expected to be a health hazard.

Skin: Not expected to be a health hazard.

Eyes: Contact with eyes may cause transient irritation.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: WN6500000

Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available **Bioaccumulative potential:** No data available

Mobility in soil: No data available **PBT and vPvB assessment:** No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport information

UN/NA number: Not applicable **Shipping name:** Not Regulated

Hazard class: Not applicable **Packing group:** Not applicable **Reportable Quantity:** No **Marine pollutant:** No

Exceptions: Not applicable **2020 ERG Guide #** Not applicable

Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sucrose	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

SAFETY DATA SHEET



www.ranaco.com

FORMALIN FIXED SPECIMENS IN PRESERVED HOLDING SOLUTION – EXCLUDING FETAL PIGS, CATS, GRASSFROGS, BULLFROGS, RABBITS, RATS, MINK

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Formalin Fixed Specimens In Preserved Holding Solution – Excluding Fetal Pigs, Cats, Grassfrogs, Bullfrogs, Rabbits, Rats, Mink
Recommended Use: Science education applications
Synonyms: None
Manufacturer/Supplier: Ranaco Corporation, 4345 E Irvington Road, Tucson, AZ 85714
General Information: 800-528-7023
Transportation Emergency Number: 800-424-9300 Chemtrec – 24 hours assistance

SECTION 2: HAZARD IDENTIFICATION

DANGER



Targeted organs:

Eyes, Skin, Central Nervous System, Respiratory Tract

GHS Classification:

Acute Toxicity, oral (Category 4)
Acute Toxicity, dermal (Category 4)
Skin Irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Acute toxicity, inhalation (Category 4)
Carcinogenicity (Category 2)

Hazard Statements:

Maybe harmful if swallowed.
Causes skin irritation.
Causes eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause cancer.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Precautionary Statements:

Obtain special instructions before use.
Wear protective gloves and eye protection.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or physician
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	%
Formaldehyde	50-00-0	> 0.1% - ≤ 0.6%
Methanol	67-56-1	≤ 0.03%
Propylene Glycol	57-55-6	≤ 9%
Ethylene Glycol Monophenyl Ether	122-99-6	≤ 1%
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Wash affected area with soap and water. Seek medical attention if symptoms develop.

EYE CONTACT: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air. Get medical treatment if symptoms persist.

INGESTION: Immediately call a POISON CENTER or physician. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, respiratory tract. Repeated exposure may cause dermatitis or other allergic reactions.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray (fog) or alcohol foam.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear self-contained breathing apparatus and wear full protective equipment.

FIRE AND/OR EXPLOSION HAZARDS: During a fire, smoke generated can be irritating or toxic.

HAZARDOUS COMBUSTION PRODUCTS: Products of combustion include but are not limited to carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors. Use gloves and eye protection to clean up spills.

EMERGENCY PROCEDURES: Ventilate area of spill. Eliminate all sources of ignition. Remove non-essential personnel.

ENVIRONMENTAL PRECAUTIONS: No special hazards. Follow applicable federal, state, provincial and local regulations regarding releases.

METHODS FOR CONTAINMENT AND CLEAN-UP: Absorb with liquid binding material and place in a sealed container. Dispose of waste in accordance with federal, state, provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not eat, drink or smoke when using this product. Avoid breathing vapors. Avoid direct skin or eye contact with liquids. Do not ingest. Wash hands with soap and water after use or handling of product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store at room temperature in a dry well ventilated area. Keep specimen container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Formaldehyde	C 0.3 ppm / C 0.37 mg/m ³	TWA: 0.75 ppm / STEL: 2ppm	TWA: 0.016 ppm / STEL: 0.1 ppm
Methanol	TWA: 200 ppm / STEL: 250 ppm	TWA: 200 ppm / STEL: 260 ppm	TWA: 200 ppm / STEL: 250 ppm
Ethylene Glycol Monophenyl Ether	Not available	Not available	Not available
	WEEL		
Propylene Glycol	TWA 10 mg/m ³ Aerosol	Not available	Not available

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility, a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles or face shield, apron and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: None should be needed in normal handling and room temperatures. If use conditions generate fumes above the OSHA regulations, use of a NIOSH/MSHA approved respirator is required.

ACGIH: American Conference of Industrial Hygienists, OSHA: U.S. Occupational Safety and Health Administration, NIOSH: U.S. National Institute for Occupational Safety and Health, PEL: Permissible Exposure Limit, TWA: Time Weighted Average, STEL: Short Term Exposure Limit, REL: Recommended Exposure Limit, WEEL: Workplace Environmental Exposure Limit

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Specimen with/without clear colorless liquid

Odor: Mild pungent odor

Odor Threshold: Data not available

pH: Data not available

Melting/Freezing Point: Data not available

Boiling Point: Data not available

Flash Point: Data not available

Evaporation Rate (Water = 1) : >1

Flammability (solid/gas): Data not available

Explosion Limits: Lower/Upper: Data not available

Vapor Pressure (mmHg): Data not available

Vapor Density: Data not available

Relative Density (Specific Gravity): >1

Solubility(ies): Complete in water

Partition Coefficient: Data not available

Auto-ignition Temperature: Data not available

Decomposition Temperature: Data not available

Viscosity: Data not available

Molecular Formula: Mixture

Molecular Weight: Mixture

SECTION 10: STABILITY & REACTIVITY

Reactivity: None under normal conditions.

Chemical Stability: Stable

Conditions to Avoid: Excessive temperatures which cause evaporation.

Incompatible Materials: Strong acids, phenol, strong oxidizers, strong bases, hydrochloric acid, ammonia, iodine, alkalies, tannin, iron products, gelatin, bisulfate

Hazardous Polymerization: None under normal conditions.

Hazardous Decomposition Products: May include, but are not limited to carbon monoxide, carbon dioxide, gaseous formaldehyde, aldehydes, ketones, alcohols, ethers and organic acids

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Formalin Fixed Specimens in Preserved Holding Solution have not been tested as a mixture. Information about individual components is supplied.

Formaldehyde – Oral-rat LD50: 100 mg/kg; Inhalation-rat LC50: 250 ppm/4 hours; Dermal-rat: 270 mg/kg

Methanol - Oral-rat LD50: 5,600 mg/kg; Inhalation-rat LC50: 6,400 ppm/4 hours, 145,000 ppm/ 1 hour; Dermal-rat: 15,800 mg/kg

Propylene Glycol – Ingestion-rat LD50: > 20,000 mg/kg; Skin absorption-rabbit LD50: > 20,000 mg/kg

Ethylene Glycol Monophenyl Ether- Oral-rat LD50: 1,840 mg/kg; Dermal-rabbit: >2,214 mg/kg

Chronic Effects: Data not available.

Skin Corrosion/Irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious Eye Damage/Irritation:

Causes eye irritation or damage.

Respiratory or Skin Sensitization:

May cause sensitization by skin contact

Germ Cell Mutagenicity: Data not available.

Carcinogenicity: Data not available. Information about individual components is supplied.

Formaldehyde – Classified as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) and OSHA. CA Prop 65: Formaldehyde is known to the State of California to cause cancer.

Reproductive Toxicity: Data not available. Information about individual components is supplied.

Methanol - CA Prop 65: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Specific Target Organ Toxicity – Single exposure: Data not available.

Specific Target Organ Toxicity– Repeated exposure: Data not available.

Aspiration Hazard: Data not available.

Potential Health Effects:

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May cause skin irritation. May cause an allergic skin reaction.

Eyes: May cause eye irritation or damage.

Signs and Symptoms of Exposure:

The chemical, physical and toxicological properties have not been thoroughly investigated for this product/mixture. Specific data is not available. Exercise appropriate procedures to minimize hazards.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 14: TRANSPORTATION INFORMATION (US DOT /CANADA TDG)

UN/NA Number: Not applicable

Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: No

Marine Pollutant: No

Exceptions: Not applicable

2012 ERG Guide#: Not applicable

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Component	TSCA	CERLCA (RQ)	RCRA CODE	DSL	NDSL	WHMIS CLASSIFICATION
Formaldehyde	Listed	100 lbs (45.4 kg)	U122	Listed	Not Listed	D1A; D2A; D2B
Methanol	Listed	5,000 lbs (2,270 kg)	U154	Listed	Not Listed	B2; D1B; D2A; D2B
Propylene Glycol	Listed	None	None	Listed	Not Listed	None
Ethylene Glycol Monophenyl Ether	Listed	None	None	Listed	Not Listed	B3

California Proposition 65 Information:

⚠ **WARNING:** This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Date Prepared: July 23, 2018

Supersedes: April 24, 2018

RANACO disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, RANACO makes no representations as to its accuracy or sufficiency. Conditions of use are beyond RANACO's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

SAFETY DATA SHEET



www.ranaco.com

FORMALIN FIXED SPECIMENS IN PRESERVED HOLDING SOLUTION – EXCLUDING FETAL PIGS, CATS, GRASSFROGS, BULLFROGS, RABBITS, RATS, MINK

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Formalin Fixed Specimens In Preserved Holding Solution – Excluding Fetal Pigs, Cats, Grassfrogs, Bullfrogs, Rabbits, Rats, Mink
Recommended Use: Science education applications
Synonyms: None
Manufacturer/Supplier: Ranaco Corporation, 4345 E Irvington Road, Tucson, AZ 85714
General Information: 800-528-7023
Transportation Emergency Number: 800-424-9300 Chemtrec – 24 hours assistance

SECTION 2: HAZARD IDENTIFICATION

DANGER



Targeted organs:

Eyes, Skin, Central Nervous System, Respiratory Tract

GHS Classification:

Acute Toxicity, oral (Category 4)
Acute Toxicity, dermal (Category 4)
Skin Irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Acute toxicity, inhalation (Category 4)
Carcinogenicity (Category 2)

Hazard Statements:

Maybe harmful if swallowed.
Causes skin irritation.
Causes eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause cancer.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Precautionary Statements:

Obtain special instructions before use.
Wear protective gloves and eye protection.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or physician
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	%
Formaldehyde	50-00-0	> 0.1% - ≤ 0.6%
Methanol	67-56-1	≤ 0.03%
Propylene Glycol	57-55-6	≤ 9%
Ethylene Glycol Monophenyl Ether	122-99-6	≤ 1%
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Wash affected area with soap and water. Seek medical attention if symptoms develop.

EYE CONTACT: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air. Get medical treatment if symptoms persist.

INGESTION: Immediately call a POISON CENTER or physician. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, respiratory tract. Repeated exposure may cause dermatitis or other allergic reactions.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray (fog) or alcohol foam.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear self-contained breathing apparatus and wear full protective equipment.

FIRE AND/OR EXPLOSION HAZARDS: During a fire, smoke generated can be irritating or toxic.

HAZARDOUS COMBUSTION PRODUCTS: Products of combustion include but are not limited to carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors. Use gloves and eye protection to clean up spills.

EMERGENCY PROCEDURES: Ventilate area of spill. Eliminate all sources of ignition. Remove non-essential personnel.

ENVIRONMENTAL PRECAUTIONS: No special hazards. Follow applicable federal, state, provincial and local regulations regarding releases.

METHODS FOR CONTAINMENT AND CLEAN-UP: Absorb with liquid binding material and place in a sealed container. Dispose of waste in accordance with federal, state, provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not eat, drink or smoke when using this product. Avoid breathing vapors. Avoid direct skin or eye contact with liquids. Do not ingest. Wash hands with soap and water after use or handling of product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store at room temperature in a dry well ventilated area. Keep specimen container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Formaldehyde	C 0.3 ppm / C 0.37 mg/m ³	TWA: 0.75 ppm / STEL: 2ppm	TWA: 0.016 ppm / STEL: 0.1 ppm
Methanol	TWA: 200 ppm / STEL: 250 ppm	TWA: 200 ppm / STEL: 260 ppm	TWA: 200 ppm / STEL: 250 ppm
Ethylene Glycol Monophenyl Ether	Not available	Not available	Not available
	WEEL		
Propylene Glycol	TWA 10 mg/m ³ Aerosol	Not available	Not available

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility, a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles or face shield, apron and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: None should be needed in normal handling and room temperatures. If use conditions generate fumes above the OSHA regulations, use of a NIOSH/MSHA approved respirator is required.

ACGIH: American Conference of Industrial Hygienists, OSHA: U.S. Occupational Safety and Health Administration, NIOSH: U.S. National Institute for Occupational Safety and Health, PEL: Permissible Exposure Limit, TWA: Time Weighted Average, STEL: Short Term Exposure Limit, REL: Recommended Exposure Limit, WEEL: Workplace Environmental Exposure Limit

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Specimen with/without clear colorless liquid

Odor: Mild pungent odor

Odor Threshold: Data not available

pH: Data not available

Melting/Freezing Point: Data not available

Boiling Point: Data not available

Flash Point: Data not available

Evaporation Rate (Water = 1) : >1

Flammability (solid/gas): Data not available

Explosion Limits: Lower/Upper: Data not available

Vapor Pressure (mmHg): Data not available

Vapor Density: Data not available

Relative Density (Specific Gravity): >1

Solubility(ies): Complete in water

Partition Coefficient: Data not available

Auto-ignition Temperature: Data not available

Decomposition Temperature: Data not available

Viscosity: Data not available

Molecular Formula: Mixture

Molecular Weight: Mixture

SECTION 10: STABILITY & REACTIVITY

Reactivity: None under normal conditions.

Chemical Stability: Stable

Conditions to Avoid: Excessive temperatures which cause evaporation.

Incompatible Materials: Strong acids, phenol, strong oxidizers, strong bases, hydrochloric acid, ammonia, iodine, alkalies, tannin, iron products, gelatin, bisulfate

Hazardous Polymerization: None under normal conditions.

Hazardous Decomposition Products: May include, but are not limited to carbon monoxide, carbon dioxide, gaseous formaldehyde, aldehydes, ketones, alcohols, ethers and organic acids

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Formalin Fixed Specimens in Preserved Holding Solution have not been tested as a mixture. Information about individual components is supplied.

Formaldehyde – Oral-rat LD50: 100 mg/kg; Inhalation-rat LC50: 250 ppm/4 hours; Dermal-rat: 270 mg/kg

Methanol - Oral-rat LD50: 5,600 mg/kg; Inhalation-rat LC50: 6,400 ppm/4 hours, 145,000 ppm/ 1 hour; Dermal-rat: 15,800 mg/kg

Propylene Glycol – Ingestion-rat LD50: > 20,000 mg/kg; Skin absorption-rabbit LD50: > 20,000 mg/kg

Ethylene Glycol Monophenyl Ether- Oral-rat LD50: 1,840 mg/kg; Dermal-rabbit: >2,214 mg/kg

Chronic Effects: Data not available.

Skin Corrosion/Irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious Eye Damage/Irritation:

Causes eye irritation or damage.

Respiratory or Skin Sensitization:

May cause sensitization by skin contact

Germ Cell Mutagenicity: Data not available.

Carcinogenicity: Data not available. Information about individual components is supplied.

Formaldehyde – Classified as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) and OSHA. CA Prop 65: Formaldehyde is known to the State of California to cause cancer.

Reproductive Toxicity: Data not available. Information about individual components is supplied.

Methanol - CA Prop 65: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Specific Target Organ Toxicity – Single exposure: Data not available.

Specific Target Organ Toxicity– Repeated exposure: Data not available.

Aspiration Hazard: Data not available.

Potential Health Effects:

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May cause skin irritation. May cause an allergic skin reaction.

Eyes: May cause eye irritation or damage.

Signs and Symptoms of Exposure:

The chemical, physical and toxicological properties have not been thoroughly investigated for this product/mixture. Specific data is not available. Exercise appropriate procedures to minimize hazards.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 14: TRANSPORTATION INFORMATION (US DOT /CANADA TDG)

UN/NA Number: Not applicable

Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: No

Marine Pollutant: No

Exceptions: Not applicable

2012 ERG Guide#: Not applicable

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Component	TSCA	CERLCA (RQ)	RCRA CODE	DSL	NDSL	WHMIS CLASSIFICATION
Formaldehyde	Listed	100 lbs (45.4 kg)	U122	Listed	Not Listed	D1A; D2A; D2B
Methanol	Listed	5,000 lbs (2,270 kg)	U154	Listed	Not Listed	B2; D1B; D2A; D2B
Propylene Glycol	Listed	None	None	Listed	Not Listed	None
Ethylene Glycol Monophenyl Ether	Listed	None	None	Listed	Not Listed	B3

California Proposition 65 Information:

⚠ **WARNING:** This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Date Prepared: July 23, 2018

Supersedes: April 24, 2018

RANACO disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, RANACO makes no representations as to its accuracy or sufficiency. Conditions of use are beyond RANACO's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

SAFETY DATA SHEET

FORMALIN FIXED GRASSFROGS AND BULLFROGS IN PRESERVED HOLDING SOLUTION



www.ranaco.com

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Formalin Fixed Grassfrogs and Bullfrogs In Preserved Holding Solution
Recommended Use: Science education applications
Synonyms: None
Manufacturer/Supplier: Ranaco Corporation, 4345 E Irvington Road, Tucson, AZ 85714
General Information: 800-528-7023
Transportation Emergency Number: 800-424-9300 Chemtrec – 24 hours assistance

SECTION 2: HAZARD IDENTIFICATION

DANGER



Targeted organs:

Eyes, Skin, Central Nervous System,
Respiratory Tract

GHS Classification:

Acute Toxicity, oral (Category 4)
Acute Toxicity, dermal (Category 4)
Skin Irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Acute toxicity, inhalation (Category 4)
Carcinogenicity (Category 2)

Hazard Statements:

Maybe harmful if swallowed.
Causes skin irritation.
Causes eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause cancer.

Precautionary Statements:

Obtain special instructions before use.
Wear protective gloves and eye protection.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or physician
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national regulations.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	%
Formaldehyde	50-00-0	All concentrations are withheld due to Trade Secret
Methanol	67-56-1	
Propylene Glycol	57-55-6	
Ethylene Glycol Monophenyl Ether	122-99-6	
Acetone	67-64-1	
Glutaraldehyde	111-30-8	
BHT Butylated Hydroxytoluene	128-37-0	
Polysorbate 80	9005-65-6	
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Wash affected area with soap and water. Seek medical attention if symptoms develop.

EYE CONTACT: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air. Get medical treatment if symptoms persist.

INGESTION: Immediately call a POISON CENTER or physician. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, respiratory tract. Repeated exposure may cause dermatitis or other allergic reactions.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray (fog) or alcohol foam.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear self-contained breathing apparatus and wear full protective equipment.

FIRE AND/OR EXPLOSION HAZARDS: During a fire, smoke generated can be irritating or toxic.

HAZARDOUS COMBUSTION PRODUCTS: Products of combustion include but are not limited to carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors. Use gloves and eye protection to clean up spills.

EMERGENCY PROCEDURES: Ventilate area of spill. Eliminate all sources of ignition. Remove non-essential personnel.

ENVIRONMENTAL PRECAUTIONS: No special hazards. Follow applicable federal, state, provincial and local regulations regarding releases.

METHODS FOR CONTAINMENT AND CLEAN-UP: Absorb with liquid binding material and place in a sealed container. Dispose of waste in accordance with federal, state, provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not eat, drink or smoke when using this product. Avoid breathing vapors. Avoid direct skin or eye contact with liquids. Do not ingest. Wash hands with soap and water after use or handling of product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store at room temperature in a dry well ventilated area. Keep specimen container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Formaldehyde	C 0.3 ppm / C 0.37 mg/m ³	TWA: 0.75 ppm / STEL: 2ppm	TWA: 0.016 ppm / STEL: 0.1 ppm
Methanol	TWA: 200 ppm / STEL: 250 ppm	TWA: 200 ppm / STEL: 260 ppm	TWA: 200 ppm / STEL: 250 ppm
Ethylene Glycol Monophenyl Ether	Not available	Not available	Not available
Glutaraldehyde	C 0.05 ppm / C 0.2 mg/m ³	Not available	C 0.2 ppm / C 0.8 mg/m ³
Acetone	TWA: 250 ppm / STEL: 500 ppm	TWA: 1000 ppm	TWA: 250 ppm
BHT Butylated Hydroxytoluene	2 mg/m ³ Vapor	5 mg/m ³ Nuisance Dust	TWA 10 mg/m ³
Polysorbate 80	None	None	None
	WEEL		
Propylene Glycol	TWA 10 mg/m ³ Aerosol	Not available	Not available

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility, a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles or face shield, apron and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: None should be needed in normal handling and room temperatures. If use conditions generate fumes above the OSHA regulations, use of a NIOSH/MSHA approved respirator is required.

ACGIH: American Conference of Industrial Hygienists, OSHA: U.S. Occupational Safety and Health Administration, NIOSH: U.S. National Institute for Occupational Safety and Health, PEL: Permissible Exposure Limit, TWA: Time Weighted Average, STEL: Short Term Exposure Limit, REL: Recommended Exposure Limit, WEEL: Workplace Environmental Exposure Limit

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Specimen with/without clear colorless liquid

Odor: Mild pungent or sweet odor

Odor Threshold: Data not available

pH: Data not available

Melting/Freezing Point: Data not available

Boiling Point: Data not available

Flash Point: Data not available

Evaporation Rate (Water = 1) : >1

Flammability (solid/gas): Data not available

Explosion Limits: Lower/Upper: Data not available

Vapor Pressure (mmHg): Data not available

Vapor Density: Data not available

Relative Density (Specific Gravity): >1

Solubility(ies): Complete in water

Partition Coefficient: Data not available

Auto-ignition Temperature: Data not available

Decomposition Temperature: Data not available

Viscosity: Data not available

Molecular Formula: Mixture

Molecular Weight: Mixture

SECTION 10: STABILITY & REACTIVITY

Reactivity: None under normal conditions.

Chemical Stability: Stable

Conditions to Avoid: Excessive temperatures which cause evaporation.

Incompatible Materials: Strong acids, phenol, strong oxidizers, strong bases, hydrochloric acid, ammonia, iodine, alkalies, tannin, iron products, gelatin, bisulfate

Hazardous Polymerization: None under normal conditions.

Hazardous Decomposition Products: May include, but are not limited to Carbon oxides, gaseous formaldehyde, aldehydes, ketones, alcohols, ethers and organic acids

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Formalin Fixed Grassfrogs and Bullfrogs in Preserved Holding Solution have not been tested as a mixture. Information about individual components is supplied.

Formaldehyde – Oral-rat LD50: 100 mg/kg; Inhalation-rat LC50: 250 ppm/4 hours; Dermal-rat: 270 mg/kg

Methanol - Oral-rat LD50: 5,600 mg/kg; Inhalation-rat LC50: 6,400 ppm/4 hours, 145,000 ppm/ 1 hour; Dermal-rat: 15,800 mg/kg

Propylene Glycol – Ingestion-rat LD50: > 20,000 mg/kg, Skin absorption-rabbit LD50: > 20,000 mg/kg

Ethylene Glycol Monophenyl Ether- Oral-rat LD50: 1,840 mg/kg; Dermal-rabbit: >2,214 mg/kg

Glutaraldehyde - Oral-rat LD50:200mg/kg; Dermal-rabbit LD50: 1,749 mg/kg

Acetone - Oral-rat LD50: 5,800 mg/kg; Inhalation-rat LC50: 50,100 mg/m³; Irritation eye-rabbit: standard draize, 20 mg

BHT Butylated Hydroxytoluene - Oral-rat LD50: >2,930 mg/kg; Dermal-rat: >2,000 mg/kg

Chronic Effects: Data not available.

Skin Corrosion/Irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious Eye Damage/Irritation:

Causes eye irritation or damage.

Respiratory or Skin Sensitization:

May cause sensitization by skin contact

Germ Cell Mutagenicity: Data not available.

Carcinogenicity: Data not available. Information about individual components is supplied.

Formaldehyde – Classified as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) and OSHA. CA Prop 65: Formaldehyde is known to the State of California to cause cancer.

Reproductive Toxicity: Data not available. Information about individual components is supplied.

Methanol - CA Prop 65: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Specific Target Organ Toxicity – Single exposure: Data not available.

Specific Target Organ Toxicity– Repeated exposure: Data not available.

Aspiration Hazard: Data not available.

Potential Health Effects:

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May cause skin irritation. May cause an allergic skin reaction.

Eyes: May cause eye irritation or damage.

Signs and Symptoms of Exposure:

The chemical, physical and toxicological properties have not been thoroughly investigated for this product/mixture. Specific data is not available. Exercise appropriate procedures to minimize hazards.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 14: TRANSPORTATION INFORMATION (US DOT / CANADA TDG)

UN/NA Number: Not applicable

Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: No

Marine Pollutant: No

Exceptions: Not applicable

2012 ERG Guide#: Not applicable

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Component	TSCA	CERLCA (RQ)	RCRA CODE	DSL	NDSL	WHMIS CLASSIFICATION
Formaldehyde	Listed	100 lbs (45.4 kg)	U122	Listed	Not Listed	D1A; D2A; D2B
Methanol	Listed	5,000 lbs (2,270 kg)	U154	Listed	Not Listed	B2; D1B; D2A; D2B
Propylene Glycol	Listed	None	None	Listed	Not Listed	None
Ethylene Glycol Monophenyl Ether	Listed	None	None	Listed	Not Listed	B3
Acetone	Listed	5,000 lbs	U002	Listed	Not Listed	B2, D2B
Glutaraldehyde	Listed	None	None	Listed	Not Listed	D1A, D2B, E
BHT Butylated Hydroxytoluene	Listed	None	None	Listed	Not Listed	None
Polysorbate 80	Listed	None	None	Listed	Not Listed	None

California Proposition 65 Information:

⚠WARNING: This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Date Prepared: July 23, 2018

Supersedes: April 24, 2018

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SAFETY DATA SHEET

FAA FIXED EARTHWORMS, WORMS, BOTANICALS AND OTHER SPECIMENS IN PRESERVED HOLDING SOLUTION



www.ranaco.com

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: FAA Fixed Earthworms, Worms, Botanicals And Other Specimens In Preserved Holding Solution
Recommended Use: Science education applications
Synonyms: None
Manufacturer/Supplier: Ranaco Corporation, 4345 E Irvington Road, Tucson, AZ 85714
General Information: 800-528-7023
Transportation Emergency Number: 800-424-9300 Chemtrec – 24 hours assistance

SECTION 2: HAZARD IDENTIFICATION

DANGER



Targeted organs:

Eyes, Skin, Central Nervous System,
Respiratory Tract

GHS Classification:

Acute Toxicity, oral (Category 4)
Acute Toxicity, dermal (Category 4)
Skin Irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)
Acute toxicity, inhalation (Category 4)
Carcinogenicity (Category 2)

Hazard Statements:

Maybe harmful if swallowed.
Causes skin irritation.
Causes eye irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause cancer.

Precautionary Statements:

Obtain special instructions before use.
Wear protective gloves and eye protection.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or physician
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national regulations.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	%
Formaldehyde	50-00-0	≤ 0.1%
Methanol	67-56-1	≤ 0.03%
Propylene Glycol	57-55-6	≤ 9%
Ethylene Glycol Monophenyl Ether	122-99-6	≤ 2%
Isopropyl Alcohol	67-63-0	≤ 0.5%
Glacial Acetic Acid	64-19-7	≤ 0.05%
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Wash affected area with soap and water. Seek medical attention if symptoms develop.

EYE CONTACT: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air. Get medical treatment if symptoms persist.

INGESTION: Immediately call a POISON CENTER or physician. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation of skin, eyes, respiratory tract. Repeated exposure may cause dermatitis or other allergic reactions.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, dry sand or alcohol foam.

FIRE FIGHTING METHODS AND PROTECTION: Firefighters should wear self-contained breathing apparatus and wear full protective equipment.

FIRE AND/OR EXPLOSION HAZARDS: During a fire, smoke generated can be irritating or toxic.

HAZARDOUS COMBUSTION PRODUCTS: Products of combustion include but are not limited to carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors. Use gloves and eye protection to clean up spills.

EMERGENCY PROCEDURES: Ventilate area of spill. Eliminate all sources of ignition. Remove non-essential personnel.

ENVIRONMENTAL PRECAUTIONS: No special hazards. Follow applicable federal, state, provincial and local regulations regarding releases.

METHODS FOR CONTAINMENT AND CLEAN-UP: Absorb with liquid binding material and place in a sealed container. Dispose of waste in accordance with federal, state, provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not eat, drink or smoke when using this product. Avoid breathing vapors. Avoid direct skin or eye contact with liquids. Do not ingest. Wash hands with soap and water after use or handling of product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store at room temperature in a dry well ventilated area. Keep specimen container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Formaldehyde	C 0.3 ppm / C 0.37 mg/m ³	TWA: 0.75 ppm / STEL: 2ppm	TWA: 0.016 ppm / STEL: 0.1 ppm
Methanol	TWA: 200 ppm / STEL: 250 ppm	TWA: 200 ppm / STEL: 260 ppm	TWA: 200 ppm / STEL: 250 ppm
Ethylene Glycol Monophenyl Ether	Not available	Not available	Not available
Isopropyl Alcohol	TWA: 200 ppm / STEL: 400 ppm	TWA 400 ppm: 980 mg/m ³	TWA 400 ppm: 980 mg/m ³
Glacial Acetic Acid	2 mg/m ³ Vapor	5 mg/m ³ Nuisance Dust	TWA 10 mg/m ³
	WEEL		
Propylene Glycol	TWA 10 mg/m ³ Aerosol	Not available	Not available

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility, a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles or face shield, apron and appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: None should be needed in normal handling and room temperatures. If use conditions generate fumes above the OSHA regulations, use of a NIOSH/MSHA approved respirator is required.

ACGIH: American Conference of Industrial Hygienists, OSHA: U.S. Occupational Safety and Health Administration, NIOSH: U.S. National Institute for Occupational Safety and Health, PEL: Permissible Exposure Limit, TWA: Time Weighted Average, STEL: Short Term Exposure Limit, REL: Recommended Exposure Limit, WEEL: Workplace Environmental Exposure Limit

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Specimen with/without clear colorless liquid

Odor: Mild odor

Odor Threshold: Data not available

pH: Data not available

Melting/Freezing Point: Data not available

Boiling Point: Data not available

Flash Point: Data not available

Evaporation Rate (Water = 1) : >1

Flammability (solid/gas): Data not available

Explosion Limits: Lower/Upper: Data not available

Vapor Pressure (mmHg): Data not available

Vapor Density: Data not available

Relative Density (Specific Gravity): >1

Solubility(ies): Complete in water

Partition Coefficient: Data not available

Auto-ignition Temperature: Data not available

Decomposition Temperature: Data not available

Viscosity: Data not available

Molecular Formula: Mixture

Molecular Weight: Mixture

SECTION 10: STABILITY & REACTIVITY

Reactivity: None under normal conditions.

Chemical Stability: Stable

Conditions to Avoid: Excessive temperatures, heat and sources ignition

Incompatible Materials: Inorganic acids, strong oxidizers, and halogens

Hazardous Polymerization: None under normal conditions.

Hazardous Decomposition Products: May include, but are not limited to Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: FAA Fixed Specimens in Preserved Holding Solution have not been tested as a mixture. Information about individual components is supplied.

Formaldehyde – Oral-rat LD50: 100 mg/kg; Inhalation-rat LC50: 250 ppm/4 hour; Dermal-rat: 270 mg/kg

Methanol - Oral-rat LD50: 5,600 mg/kg; Inhalation-rat LC50: 6,400 ppm/4 hours, 145,000 ppm/ 1 hour; Dermal-rat: 15,800 mg/kg

Propylene Glycol – Ingestion-rat LD50: > 20,000 mg/kg; Skin absorption-rabbit LD50: > 20,000 mg/kg

Ethylene Glycol Monophenyl Ether- Oral-rat LD50: 1,840 mg/kg; Dermal-rabbit: >2,214 mg/kg

Isopropyl Alcohol - Oral-rat LD50: 5,000 mg/kg; Dermal-rabbit LD50: 12,800 mg/kg; Inhalation-rat LC50: 16,000 ppm; Irritation eye-rabbit: standard draize, 10 mg

Glacial Acetic Acid - Oral-rat LD50: 3,310 mg/kg; Dermal-rabbit LD50: 1.06 g/kg; Inhalation-mouse LC50: 5,620 ppm/1-hr

Chronic Effects: Data not available.

Skin Corrosion/Irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious Eye Damage/Irritation:

Causes eye irritation or damage.

Respiratory or Skin Sensitization:

May cause sensitization by skin contact

Germ Cell Mutagenicity: Data not available.

Carcinogenicity: Data not available. Information about individual components is supplied.

Formaldehyde – Classified as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) and OSHA. CA Prop 65: Formaldehyde is known to the State of California to cause cancer.

Reproductive Toxicity: Data not available. Information about individual components is supplied.

Methanol - CA Prop 65: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Specific Target Organ Toxicity – Single exposure: Data not available.

Specific Target Organ Toxicity– Repeated exposure: Data not available.

Aspiration Hazard: Data not available.

Potential Health Effects:

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May cause skin irritation. May cause an allergic skin reaction.

Eyes: May cause eye irritation or damage.

Signs and Symptoms of Exposure:

The chemical, physical and toxicological properties have not been thoroughly investigated for this product/mixture. Specific data is not available. Exercise appropriate procedures to minimize hazards.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 14: TRANSPORTATION INFORMATION (US DOT /CANADA TDG)

UN/NA Number: Not applicable

Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: No

Marine Pollutant: No

Exceptions: Not applicable

2012 ERG Guide#: Not applicable

SECTION 15: REGULATORY INFORMATION

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Component	TSCA	CERLCA (RQ)	RCRA CODE	DSL	NDSL	WHMIS CLASSIFICATION
Formaldehyde	Listed	100 lbs (45.4 kg)	U122	Listed	Not Listed	D1A; D2A; D2B
Methanol	Listed	5,000 lbs (2,270 kg)	U154	Listed	Not Listed	B2; D1B; D2A; D2B
Propylene Glycol	Listed	None	None	Listed	Not Listed	None
Ethylene Glycol Monophenyl Ether	Listed	None	None	Listed	Not Listed	B3
Isopropyl Alcohol	Listed	None	None	Listed	Not Listed	B2, D2B
Glacial Acetic Acid	Listed	5,000 lbs (2,270 kg)	None	Listed	Not Listed	B3, E

California Proposition 65 Information:

⚠WARNING: This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Date Prepared: July 23, 2018

Supersedes: April 17, 2018

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Section 1 Chemical Product and Company Identification

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HOME SCIENCE TOOLS

665 Carbon Street
Billings, MT 59102
800-860-6272
www.homesciencetools.com

CHEMTREC 24 Hour Emergency USA
Phone Number (800) 424-9300
1 703-741-5500 (from anywhere in the world).
For laboratory and industrial use only.
Not for drug, food or household use.

Product ETHYL ALCOHOL, DENATURED, 95%**Synonyms** Ethanol, Denatured, 95%

Section 2 Hazards Identification

Signal word: DANGER**Pictograms:** GHS02 / GHS06 / GHS07 / GHS08**Target organs:** Eyes, Central nervous system, Liver, Kidneys.**GHS Classification:**

Flammable liquid (Category 2)
Acute toxicity, oral (Category 3)
Acute toxicity, dermal (Category 3)
Acute toxicity, inhalation (Category 3)
Eye irritation (Category 2B)
STOT-SE (Category 2)
STOT-SE (Category 3)

GHS Label information: Hazard statement:

H225: Highly flammable liquid and vapour.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H336: May cause drowsiness or dizziness.
H371: May cause damage to organs.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233+P235: Keep container tightly closed. Keep cool.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor.
P337+P313: If eye irritation persists: Get medical attention.
P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.
P403+P405: Store in a well-ventilated place. Store locked up.
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known
Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Ethyl alcohol	64-17-5	80.75 - 81.51%	200-578-6
Isopropyl alcohol	67-63-0	8.55%	200-661-7
Water	7732-18-5	5.00%	231-791-2
Methanol	67-56-1	3.80 - 4.08%	200-659-6
Methyl isobutyl ketone	108-10-1	0.85 - 0.95%	203-550-1

Section 4 First Aid Measures

INGESTION: TOXIC IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: TOXIC IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: TOXIC IN CONTACT WITH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Ethanol	STEL: 1000 ppm / 1880 mg/m ³ (A3)	TWA: 1000 ppm / 1900 mg/m ³	TWA: 1000 ppm / 1900 mg/m ³

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Clear, colorless liquid.	Evaporation rate (Butyl acetate = 1): Ca 2*	Partition coefficient: (n-octanol / water): Low Pow: -.32*
Odor: Mild characteristic odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: 400°C (752°F)*
Odor threshold: Data not available.	Explosion limits: Lower / Upper: 4.0%(V) / 20.0%(V)*	Decomposition temperature: Data not available.
pH: Data not available.	Vapor pressure (mm Hg): Ca 50 @ 20°C*	Viscosity: Data not available.
Melting / Freezing point: -114°C (-173°F)*	Vapor density (Air = 1): Ca 1.5*	Molecular formula: Mixture
Boiling point: 74-80°C (165.2-176°F)*	Relative density (Specific gravity): 0.7919-0.7955°C @ 60/60°F*	Molecular weight: Mixture
Flash point: 5°C (41°F)*	Solubility(ies): Soluble in water.	*[Ethanol]

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizers, inorganic acids and halogens.

Hazardous decomposition products: Oxides of carbon.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

Skin corrosion/irritation: Skin-rabbit - Slight irritant.

Serious eye damage/irritation: Eyes-rabbit - Severe irritant.

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: ⚠ WARNING! : This product can expose you to chemicals including Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

Ingestion: Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

Skin: Contact with skin causes irritation defatting on prolonged contact.

Eyes: Contact with eyes may cause blindness.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: KQ6300000 [Ethanol]

Section 12 Ecological Information

Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

Toxicity to algae: Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT / CANADA TDG)

UN/NA number: UN1170

Shipping name: Ethanol

Hazard class: 3

Packing group: II

Reportable Quantity: 5,000 lbs (2270 kg)

Marine pollutant: No

Exceptions: Limited quantity equal to or less than 1 L

2016 ERG Guide # 127

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol	Listed	Not listed	D001	Listed	Not listed	⚠ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	

Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.