

SAFETY DATA SHEET

Section 1, Identification

<i>Product:</i>	Karlin Foods Baking Soda, KF ID# S24BS
<i>Manufacturer:</i>	Karlin Foods Corp 1845 Oak St. Suite 19 Northfield, IL 60093
<i>Emergency Phone Number:</i>	Karlin Foods: 847-441-8330 Chemtrec: 800-424-9300
<i>Recommended Use:</i>	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, direct food additive
<i>Restrictions on Use:</i>	None

Section 2, Hazard(s) Identification

<i>Classification:</i>	OSHA Regulatory Status. This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
<i>Required Label:</i>	The product contains no substances which at their given concentration, are considered to be hazardous to health
<i>Other Information:</i>	Product dust may cause mechanical eye irritation.

Section 3, Composition/Information on Ingredients

<i>Formula:</i>	NaHCO ₃
<i>Chemical Name:</i>	Sodium Bicarbonate

Section 4, First Aid Measures

<i>Eye Contact:</i>	Flush eyes with water as a precaution. Get Medical attention if irritation develops and persists.
<i>Skin Contact:</i>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<i>Inhalation:</i>	Remove person to fresh air. If signs/symptoms continue, get medical attention.
<i>Ingestions:</i>	Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur
<i>Most important symptoms and effects, both acute and delayed:</i>	None known.
<i>Indication of immediate medical attention and special treatment needed, if necessary</i>	Treat symptomatically.

Section 5, Fire-Fighting Measures

<i>Suitable Extinguishing Media:</i>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<i>Specific Hazards Arising from the Chemical:</i>	None in particular. Not flammable
<i>Hazardous Combustion Products:</i>	None
<i>Explosion data</i>	

<i>Sensitivity to Mechanical Impact:</i>	Not sensitive
<i>Sensitivity to Static Discharge:</i>	Not sensitive
<i>Protective equipment and precautions for firefighters</i>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Section 6, Accidental Release Measures	
<i>Personal Precautions:</i>	Avoid dust formation.
<i>Other:</i>	For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<i>Environmental Precautions:</i>	Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.
<i>Methods for Containment:</i>	Vacuum or shovel waste into a drum and label contents for disposal.
<i>Methods for cleaning up:</i>	Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indications in Section 13.
Section 7, Handling and Storage	
<i>Handling:</i>	Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.
<i>Storage:</i>	Keep in a dry place. Keep away from incompatible products (acids). Do not store with strong smelling materials.
<i>Incompatible Products:</i>	Except under controlled conditions: Acids
Sections 8, Exposure Controls/Personal Protection	
<i>Control Parameters:</i>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.
<i>Appropriate Engineering Controls:</i>	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<i>Individual protection measures, such as personal protective equipment.</i>	
<i>Eye/Face Protection:</i>	Safety glasses with side shields
<i>Skin and Body Protection:</i>	Wear suitable protective clothing. Protective shoes or boots.
<i>Hand Protection:</i>	Protective gloves.
<i>Respiratory Protection:</i>	In case of inadequate ventilation, wear respiratory protection.
<i>Hygiene Measures:</i>	Handle in accordance with good industrial hygiene and safety practice.

<i>General Information:</i>	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.
Section 9, Physical and Chemical Properties	
<i>Appearance:</i>	Crystalline, Powder
<i>Physical State:</i>	Solid
<i>Color:</i>	White
<i>Odor:</i>	Odorless
<i>Odor Threshold:</i>	Not applicable
<i>pH:</i>	8.3 (1% solution) @ 25 degrees Celsius
<i>Melting Point/freezing point:</i>	Not applicable
<i>Boiling Point/Range:</i>	No information available
<i>Flash point:</i>	Not applicable
<i>Evaporation Rate:</i>	No information available
<i>Flammability (solid, gas):</i>	No information available
<i>Flammability Limit in Air:</i>	No information available
<i>Vapor pressure:</i>	Negligible
<i>Vapor density:</i>	No information available
<i>Density:</i>	No information available
<i>Specific gravity:</i>	2.22
<i>Water solubility:</i>	96g/L @ 20 degrees Celsius
<i>Solubility in other solvents:</i>	No information available
<i>Partition coefficient:</i>	Not applicable
<i>Autoignition temperature:</i>	No information available
<i>Decomposition temperature:</i>	No information available
<i>Viscosity, kinematic:</i>	No information available
<i>Viscosity, dynamic:</i>	No information available
<i>Explosive properties:</i>	No information available
<i>Oxidizing properties:</i>	Non-oxidizing
<i>Molecular weight:</i>	84.01
<i>Bulk Density:</i>	66 lb/cu ft
Section 10, Stability and Reactivity	
<i>Reactivity:</i>	None under normal use conditions
<i>Chemical Stability:</i>	Stable
<i>Possibility of Hazardous Reactions:</i>	None under normal processing/
<i>Hazardous polymerization:</i>	Hazardous polymerization does not occur
<i>Conditions to avoid:</i>	Heat. Humid air. Avoid contact with acids except under controlled conditions. Keep away from strong odor.
<i>Incompatible materials:</i>	Except under controlled conditions: Acids.
<i>Hazardous Decomposition Products:</i>	Reacts with acids to release carbon dioxide gas and heat.
Section 11, Toxicological Information	
<i>LD50 Oral:</i>	>5,000 mg/kg (rat)
<i>LD50 Dermal:</i>	No information available
<i>LC50 Inhalation:</i>	>4.74 mg/L (rat) 4.5 hr
<i>Eye Contact:</i>	Non-irritating

<i>Skin Contact:</i>	Non-irritating			
<i>Sensitization:</i>	Non-sensitizing			
<i>Info on toxicological effects: Symptoms</i>	No information available.			
<i>Chronic Toxicity:</i>	No known effect			
<i>Mutagenicity:</i>	Not mutagenic			
<i>Carcinogenicity:</i>	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)			
<i>Reproductive toxicity:</i>	No information available			
<i>STOT – single exposure:</i>	No information available			
<i>STOT – repeated exposure:</i>	No information available			
<i>Aspiration hazard:</i>	No information available			
Section 12, Ecological Information				
<u>Ecotoxicity</u>				
Sodium Bicarbonate (144-55-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Sodium bicarbonate	96 hr.	<i>Lepomis macrochirus</i> (Bluefill sunfish)	NOEC: 5,200 LC50: 7,100	mg/L
Sodium bicarbonate	48 hr. immobilization test	<i>Daphnia magna</i>	NOEC: 3,100 EC50: 4,100	mg/L
Sodium bicarbonate	96 hr.	<i>Oncorhynchus mykiss</i> (rainbow trout)	NOEC: 2,300 LC50: 7,700	mg/L
<i>Persistence and degradability:</i>	Biodegradability does not pertain to inorganic substances.			
<i>Bioaccumulation:</i>	Does not bio-accumulate			
<i>Mobility:</i>	Dissociates into ions.			
<i>Other Adverse Effects:</i>	None known.			
Section 13, Disposal Considerations				
<i>Waste disposal methods:</i>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.			
<i>Contaminated Packaging:</i>	Dispose of in accordance with local regulations			
Section 14, Transport Information				
<i>DOT</i>	Not Regulated			
Section 15, Regulatory Information				
<i>U.S. Federal Regulations</i>				
<i>SARA313</i>	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			
<i>SARA 311/312 Hazard Categories</i>				
<i>Acute health hazard</i>	No			
<i>Chronic health hazard</i>	No			
<i>Fire hazard</i>	No			
<i>Sudden release of pressure hazard</i>	No			
<i>Reactive Hazard</i>	No			

<i>Clean Water Act</i>	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)							
<i>CERCLA</i>	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.							
<i>California Proposition 65</i>	This product does not contain any Proposition 65 Chemicals							
<i>U.S. State Right-to-Know Regulations</i>	This product does not contain any substances regulated by state right-to-know regulations.							
<i>International Inventories</i>								
Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Sodium Bicarbonate 144-55-8 (100)	X	X	X	X	X	X	X	X
Section 16, Other Information								
NFPA	Health Hazards 0	Flammability 0	Instability 0	Special Hazards -				
HMIS	Health Hazards 0	Flammability 0	Physical hazard 0	Personal Protection X				
NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0								
Product Certifications This product meets the chemical testing specifications defined in the USP and Food Chemicals Codex (FCC), 9th Edition and is manufactured under GMP and in compliance with FSMA. The MUL (maximum use level) for sodium bicarbonate is 100 mg/L under NSF/ANSI Standard 60.								

Section 1 Identification

Page E1 of E2

HOME SCIENCE TOOLS

665 Carbon Street
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 CALCIUM CHLORIDE, DIHYDRATE**Synonyms** Calcium Chloride, Hydrated

Section 2 Hazards identification

Signal word: WARNING**Pictograms:** GHS07**Target organs:** None known**GHS Classification:**

Acute toxicity (Oral) (Category 4)

Eye irritation (Category 2B)

Skin irritation (Category 2)

GHS Label information: Hazard statement:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

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

P330: Rinse mouth.

P332+P313: If skin irritation occurs: Get medical attention.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

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
Calcium chloride, dihydrate	10035-04-8	100%	233-140-8 (anhydrous)
Contains:			
Calcium chloride, anhydrous	10043-52-4	77-80%	233-140-8
Water	7732-18-5	15-20%	231-791-2
Potassium chloride	7447-40-7	2-3%	231-211-8
Sodium chloride	7647-14-5	1-2%	231-598-3

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: 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: MAY CAUSE 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 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. Heat is generated when product mixes with water.

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: Hygroscopic material. 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)
	Particulates not otherwise classified	None established	TWA: 15 mg/m ³ total dust	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 and chemical properties

Appearance: Solid. White flakes.	Evaporation rate (= 1): Not applicable	Partition coefficient: Not applicable
Odor: No odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Not applicable
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: 772°C (1422°F)	Vapor density (Air = 1): Data not available	Molecular formula: CaCl ₂ •2H ₂ O
Boiling point: Data not available	Relative density (Specific gravity): Data not available	Molecular weight: 147.02
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: Hygroscopic material. Avoid moisture.

Incompatible materials: Heat is generated when mixed with water. Spattering and boiling can occur. Avoid contact with sulfuric acid. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc and sodium.

Hazardous decomposition products: None known.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: 2100 mg/kg ; Dermal-rabbit LD50: >5000 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: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Dust may cause irritation to the upper respiratory tract (nose and throat).

Ingestion: Low toxicity if swallowed. However, large amounts may result in gastrointestinal irritation or ulceration.

Skin: Contact with skin may cause irritation and/or defatting on prolonged contact.

Eyes: Contact with eyes may cause severe irritation and/or corneal injury.

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

Additional information: RTECS #: EV9810000

Section 12 Ecological information

Toxicity to fish: Lepomis macrochirus (bluegill) LC50: 8,350-10,650 mg/L

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (water flea), LC50: 759-3,005 mg/L

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
Calcium 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.

SAFETY DATA SHEET

Section 1, Identification

<i>Product:</i>	Karlin Foods Corn Starch, KF ID# S34
<i>Manufacturer:</i>	Karlin Foods Corp 1845 Oak St. Suite 19 Northfield, IL 60093
<i>Emergency Phone Number:</i>	Karlin Foods: 847-441-8330 Chemtrec: 800-424-9300
<i>Recommended Use:</i>	Leavening agent, cleaner ingredient, bath salt ingredient, water softener, diaper rinse ingredient, direct food additive
<i>Restrictions on Use:</i>	None

Section 2, Hazard(s) Identification

<i>Classification:</i>	According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC [CLP]: Not classified
<i>Required Label:</i>	The product contains no substances which at their given concentration, are considered to be hazardous to health
<i>Other Information:</i>	May form combustible dust concentrations in air. Possibility of dust explosion. it is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Keep away from all ignition sources including heat, sparks and flame.

Section 3, Composition/Information on Ingredients

<i>CAS Number</i>	9005-25-8
<i>Chemical Name:</i>	Starch

Section 4, First Aid Measures

<i>Eye Contact:</i>	Remove particulates by irrigating with eye wash solution or clean water, holding eyelids apart
<i>Skin Contact:</i>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<i>Inhalation:</i>	Remove person to fresh air. If signs/symptoms continue, get medical attention.
<i>Ingestions:</i>	Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur
<i>Most important symptoms and effects, both acute and delayed:</i>	None known.
<i>Indication of immediate medical</i>	Treat symptomatically.

<i>attention and special treatment needed, if necessary</i>	
Section 5, Fire-Fighting Measures	
<i>Suitable Extinguishing Media:</i>	Water spray, dry powder, carbon dioxide or media appropriate for surrounding fire. Use of water jet may cause explosive dust conditions.
<i>Specific Hazards Arising from the Chemical:</i>	Possibility of dust explosion. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Use of water jet may cause explosive dust conditions. SEE NFPA 61, Standard for the prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 or later Edition, and other related standards.
<i>Hazardous Combustion Products:</i>	Carbon dioxide and carbon monoxide
<i>Explosion data</i>	
<i>Sensitivity to Mechanical Impact:</i>	Not sensitive
<i>Sensitivity to Static Discharge:</i>	Not sensitive
<i>Protective equipment and precautions for firefighters</i>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Section 6, Accidental Release Measures	
<i>Personal Precautions:</i>	None under normal conditions. Avoid prolonged inhalation of dust.
<i>Other:</i>	For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<i>Environmental Precautions:</i>	Prevent further leakage or spillage if safe to do so. No special environmental precautions required.
<i>Methods for Containment:</i>	Vacuum or shovel waste into a drum and label contents for disposal.
<i>Methods for cleaning up:</i>	Vacuum or sweep spills. Minimize dust generation. If washing down spilled area is necessary, use copious amounts of water and control runoff. Follow local, state and federal regulations for product disposal
Section 7, Handling and Storage	
<i>Handling:</i>	See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards. Use with adequate ventilation. Minimize dust generation and accumulation; dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are disturbed. All dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions and may require explosion relief vents or an

	<p>explosion suppression system or an oxygen-deficient environment. Bonding and grounding systems may be required.</p> <p>Dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) should be designed to limit or prevent leakage of dust into the work area.</p> <p>Do not allow dust to accumulate on flat surfaces, on rafters or building structural components.</p> <p>Routine housekeeping should be instituted to reduce dust accumulation. Use Avoid dispersal of dust in the air; use vacuum or wet sweeping methods. Do not use compressed air to clean surfaces.</p> <p>Keep away from all ignition sources including heat, sparks, and flame. Where dust accumulations occur use non-sparking tools.</p>
<i>Storage:</i>	<p>Store in a cool dry place. Store in a tightly closed container/bag.</p> <p>The packaging material should have reasonable moisture and air barriers and comply with food regulations.</p>
<i>Incompatible Products:</i>	<p>Except under controlled conditions: Acids</p>
Sections 8, Exposure Controls/Personal Protection	
<i>Control Parameters:</i>	<p>8.1 CONTROL PARAMETERS</p> <p>Exposure limits: Nuisance dust (also called particulate not otherwise regulated (PNOR)).</p> <p>OSHA PEL: 15 mg/ mg/m3 Total dust 5 mg/m3 Respirable dust</p> <p>ACGIH TLV: 10 mg/m3 Inhalable dust 5 mg/m3 Respirable dust 15 mg/m3 Total dust</p>
<i>Appropriate Engineering Controls:</i>	<p>Ventilation: See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and National Fire Protection Association 650, Standard for Pneumatic Conveying Systems for Handling Combustible Materials, 1997 Edition and other related standards. Normal industrial hygiene measures should be sufficient for protection of employees from exposure to dusts. Local and mechanical exhaust is desirable when dumping bags.</p>
<i>Individual protection measures, such as personal protective equipment.</i>	
<i>Eye/Face Protection:</i>	<p>Safety glasses are recommended. Safety goggles are desirable when dumping bags.</p>
<i>Skin and Body Protection:</i>	<p>Wear suitable protective clothing. Protective shoes or boots.</p>
<i>Hand Protection:</i>	<p>Protective gloves.</p>
<i>Respiratory Protection:</i>	<p>In case of inadequate ventilation, wear respiratory protection.</p>
<i>Hygiene Measures:</i>	<p>Handle in accordance with good industrial hygiene and safety practice.</p>
<i>General Information:</i>	<p>If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.</p>

Section 9, Physical and Chemical Properties	
<i>Appearance:</i>	Crystalline, Powder
<i>Physical State:</i>	Powder
<i>Color:</i>	White to off-white
<i>Odor:</i>	Starch-like odor
<i>pH:</i>	Data on specification
<i>Melting Point/freezing point:</i>	Not applicable
<i>Boiling Point/Range:</i>	No information available
<i>Flash point:</i>	Not applicable
<i>Evaporation Rate:</i>	No information available
<i>Flammability (solid, gas):</i>	No information available
<i>Flammability Limit in Air:</i>	No information available
<i>Vapor pressure:</i>	Negligible
<i>Vapor density:</i>	No information available
<i>Density:</i>	No information available
<i>Specific gravity:</i>	No Data
<i>Water solubility:</i>	Data on specification
<i>Solubility in other solvents:</i>	No information available
<i>Partition coefficient:</i>	Not applicable
<i>Autoignition temperature:</i>	No information available
<i>Decomposition temperature:</i>	No information available
<i>Viscosity, kinematic:</i>	No information available
<i>Viscosity, dynamic:</i>	No information available
<i>Explosive properties:</i>	No information available
<i>Oxidizing properties:</i>	Non-oxidizing
<i>Molecular weight:</i>	No data
<i>Bulk Density:</i>	No data
Section 10, Stability and Reactivity	
<i>Reactivity:</i>	Stable
<i>Chemical Stability:</i>	Stable under normal conditions. Polymerization will not occur.
<i>Possibility of Hazardous Reactions:</i>	Not applicable.
<i>Hazardous polymerization:</i>	Hazardous polymerization does not occur
<i>Conditions to avoid:</i>	Practices which produce dust or disperse finely divided dust in air. See NFPA 61. Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards.
<i>Incompatible materials:</i>	Oxidizing agents, strong acids

<i>Hazardous Decomposition Products:</i>	Nothing unusual
Section 11, Toxicological Information	
<i>Inhalation:</i>	Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.
<i>Ingestion:</i>	No effects known or anticipated.
<i>Skin irritation/corrosion:</i>	Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. no health effects known or anticipated.
<i>Eye Irritation:</i>	May cause slight mechanical irritation from acute exposure.
<i>Skin sensitivity:</i>	Not sensitizing
<i>Chronic Toxicity:</i>	Not known or anticipated
<i>Genetic Toxicity:</i>	Not known or anticipated
<i>Carcinogenicity:</i>	Not classifiable as Carcinogen
<i>Reprotoxicity:</i>	Not known or anticipated
<i>Specific effects:</i>	Not applicable
Section 12, Ecological Information	
<i>Toxicity:</i>	Starch and its breakdown products are not known to be toxic to plant and animal life.
<i>Persistence and degradability:</i>	Readily biodegradable
<i>Bioaccumulation:</i>	Starch and its breakdown products are not fat-soluble, and do not accumulate in plant or animal tissue.
<i>Mobility:</i>	Not applicable
<i>Other Adverse Effects:</i>	None known.
Section 13, Disposal Considerations	
<i>Waste disposal methods:</i>	Follow local, state and federal regulations for product disposal. Not a hazardous waste unless contaminated with hazardous products.
Section 14, Transport Information	
<i>DOT shipping label</i>	Non-hazardous
Section 15, Regulatory Information	
<i>U.S. Federal Regulations</i>	
<i>Safety, Health and Environmental Regulations:</i>	According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC(CLP): Not classified
<i>Clean Air Act:</i>	
<i>ODS:</i>	Not applicable
<i>TSCA:</i>	Not applicable
<i>SARA (EPCRA) Section 313 (40 C.F.R. 372.65)</i>	Not applicable
<i>California Proposition 65</i>	Not applicable
Section 16, Other Information	

See Hazard Communication Guidance of Combustible Dusts, OSHA 3371-08 2009, U.S. Occupational

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
VOC Content (%)

No information available
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.
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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	MAGNESIUM SULFATE, HEPTAHYDRATE
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Synonyms	Epsom Salts
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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

Pictograms: No symbol required

Target organs: None known

GHS Classification: Not classified

GHS Label information: Hazard statement: Not classified

Precautionary statement: 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
Magnesium sulfate	10034-99-8	100%	231-298-2 (anhydrous)

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 BE HARMFUL IF INHALED. 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: MAY CAUSE 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 BE HARMFUL IF ABSORBED THROUGH SKIN. 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 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: Recover for reuse 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)
	Magnesium sulfate	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 crystalline powder	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: Data not available.	Vapor pressure (mm Hg): Data not available	Viscosity: Data not available.
Melting / Freezing point: Data not available	Vapor density (Air = 1): Data not available	Molecular formula: MgSO ₄ ·7H ₂ O
Boiling point: Data not available	Relative density (Specific gravity): 2.7	Molecular weight: 246.48
Flash point: Data not available	Solubility(ies): Appreciable in water.	

Section 10 Stability & Reactivity

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

Conditions to avoid: Excessive temperatures and heat. Protect from moisture.

Incompatible materials: None known.

Hazardous decomposition products: Sulfur oxides.

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.

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: May cause respiratory irritation.

Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: Data not available

Section 12 Ecological Information

Toxicity to fish: Gambusia affinis (fish, fresh water), LC50: 15,500 mg/L/24 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), EC50: 1,700 mg/L/24 hours

Toxicity to algae: Scenedesmus subspicatus (Algae), EC50: 2,700 mg/L/ 72 hours

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
Magnesium sulfate	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.

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 IODINE-POTASSIUM IODIDE SOLUTION**Synonyms** Iodine-Iodide / Iodine Solution / Iodine / Iodine Lugol's Dilute / Gram's Iodine Solution / Dilute Lugol's Solution

Section 2 Hazards Identification

Signal word: WARNING**Pictograms:** GHS07 / GHS09**Target organs:** Thyroid, kidneys, endocrine system, skin, eyes, reproductive system, central nervous system.**GHS Classification:**

Acute toxicity, dermal (Category 4)

Acute toxicity, inhalation (Category 4)

Aquatic toxicity, acute (Category 1)

GHS Label information: Hazard statement(s):

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H400: Very toxic to aquatic life.

Precautionary statement(s):

P261: Avoid breathing mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P391: Collect spillage.

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
Water	7732-18-5	95.10%	231-791-2
Potassium iodide	7681-11-0	3.05%	231-659-4
Iodine	7553-56-2	1.85%	231-442-4

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:** HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Harmful if inhaled.**EYE CONTACT:** MAY CAUSE 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:** HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Harmful in contact with skin.

Section 5 Fire Fighting Measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.**General information:** 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 & Storage

Page E2 of E2

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, mist or spray. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Iodine CAS # 7553-56-2	TWA: 0.01 ppm ^(IFV) / STEL: 0.1 ppm ^(V)	STEL: C 0.1 ppm/C 1 mg/m ³	STEL: C 0.1 ppm/C 1 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: Deep amber liquid. Odor: Characteristic odor. Odor threshold: Not applicable. pH: Data not available. Melting / Freezing point: ~ 0°C (~ 32°F) [water] Boiling point: ~ 100°C (212°F) [water] Flash point: Not flammable.	Evaporation rate (Water = 1): < 1 Flammability (solid/gas): Not applicable. Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): 1.0 [water] Solubility(ies): Complete in water.	Partition coefficient: (n-octanol / water): Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
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Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Stable under recommended storage conditions. Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Metals or unsaturated organic compounds, ammonia solutions or alkaline solutions of ammonia salts. Will form explosive nitrogen iodides when reacted with gaseous ammonia.

Hazardous decomposition products: Toxic iodide fumes.

Section 11 Toxicological Information

Acute toxicity: Oral-Rat LD50: 14,000 mg/kg [Iodine CAS # 7553-56-2]

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Inhalation-rat 3.1 mg/m³ / 24 hour / 13 weeks - continuous [Iodine CAS # 7553-56-2]

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

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.

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.

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: Symptoms include cough, wheezing, and labored breathing. Symptoms may be delayed.

Ingestion: Causes abdominal pain, diarrhea, nausea, and vomiting. Ingestion of levels of 2-3 grams of iodine may cause death.

Skin: Contact may cause redness and pain.

Eyes: Contact causes watering of the eyes, redness and pain.

Signs and symptoms of exposure: Effects of short-term exposure: Lachrymator. The substance is severely irritating to the eyes and the respiratory tract, and is irritating to the skin. Inhalation of the vapor may cause asthma-like reactions. Inhalation of the vapor may cause lung edema. The effects may be delayed. Effects of long-term exposure: Repeated or prolonged contact may cause skin sensitization in rate cases. Repeated or prolonged inhalation exposure may cause asthma-like syndrome. The substance may have effects on the thyroid. Specific data not available for this mixture. Exercise appropriate procedures to minimize potential hazards..

Additional information: RTECS #: NN1575000 [Iodine CAS # 7553-56-2]

Section 12 Ecological Information

Toxicity to fish: Very toxic to aquatic life.

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 (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
Iodine	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.
Potassium iodide	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.

Form 06/2015

Revision Date: February 27, 2018

Supersedes: February 22, 2018

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 CARBONATE, ANHYDROUS**Synonyms** Soda Ash

Section 2 Hazards Identification

Signal word: WARNING**Pictograms:** GHS07**Target organs:** None known.**GHS Classification:**

Eye irrit. (Category 2A)

GHS Label information: Hazard statement:

H319: Causes serious eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

P337+P313: If eye irritation persists: Get medical 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
Sodium carbonate	497-19-8	100%	207-838-8

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

Extinguishing Media: Use any media suitable for extinguishing supporting fire.**General information:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Sodium carbonate reacts with hydrated lime to form caustic soda. Special care should be taken where lime and sodium carbonate are handled in the same area.

Section 6 Accidental Release Measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. 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. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling & Storage

Page E2 of E2

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

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)
	Sodium carbonate	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 powder.

Odor: No odor.

Odor threshold: Data not available.

pH: Data not available.

Melting / Freezing point: 864°C (1587°F)

Boiling point: Decomposes

Flash point: Not flammable

Evaporation rate (= 1): Data not available

Flammability (solid/gas): Data not available.

Explosion limits: Lower / Upper: Not flammable

Vapor pressure (mm Hg): Data not available

Vapor density (Air = 1): Data not available

Relative density (Specific gravity): 2.533

Solubility(ies): 17% @ 20°C in water

Partition coefficient: Data not available

Auto-ignition temperature: Data not available

Decomposition temperature: 1000°C (1832°F)

Viscosity: Data not available.

Molecular formula: Na₂CO₃

Molecular weight: 105.99

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures. Hygroscopic material, avoid moisture.

Incompatibilities with other materials: Acids cause decomposition liberating gaseous carbon dioxide. When mixed with lime dust and water, corrosive and caustic soda may be produced.

Hazardous decomposition products: Carbon dioxide.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 4090 mg/kg ; Inhalation-rat LC50: 2.3 mg/l/2 hours ; Dermal-rat LD50: 2210 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: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Signs and symptoms of exposure: Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting.

Additional information: RTECS #: VZ4050000

Section 12 Ecological Information

Toxicity to fish: LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h

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 (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 carbonate	Listed	Not listed	Not listed	Not 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 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 PHOSPHATE, TRIBASIC, DODECAHYDRATE**Synonyms** Trisodium Phosphate, 12-Hydrate / TSP / Trisodium Phosphate, Dodecahydrate

Section 2 Hazards Identification

Signal word: DANGER**Pictograms:** GHS05**Target organs:** Eyes**GHS Classification:**

Skin corrosion (Category 1A)

GHS Label information: Hazard statement(s):

H314: Causes severe skin burns and eye damage.

Precautionary statement(s):

P260: Do not breathe dusts.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: 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.

P405: 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
Sodium phosphate, tribasic, dodecahydrate	10101-89-0	100%	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 BE HARMFUL IF INHALED. 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: MAY CAUSE SEVERE IRRITATIONS OR BURNS. 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 BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SEVERE IRRITATIONS OR BURNS. 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: Recover for reuse 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)
	Sodium phosphate	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Solid. White, crystalline powder.	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: Data not available	Vapor pressure (mm Hg): Data not available	Viscosity: Data not available.
Melting / Freezing point: 73.3 to 76.7°C (163-171°F)	Vapor density (Air = 1): Data not available	Molecular formula: Na ₃ PO ₄ •12H ₂ O
Boiling point: Decomposes	Relative density (Specific gravity): 1.62	Molecular weight: 380.12
Flash point: Not flammable	Solubility(ies): Appreciable (10%) water	

Section 10 Stability & Reactivity

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

Conditions to avoid: Excessive temperatures, heat and moisture.

Incompatible materials: Strong oxidizers, strong acids, antipyrine, chloral hydrate, lead acetate, pyrogallol, resorcinol, alkaloids, water and moisture.

Hazardous decomposition products: Sodium oxides and phosphorous.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 7400 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: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Skin: Causes severe irritation and/or burns.

Eyes: Causes burns.

Signs and symptoms of exposure: Cough, shortness of breath, headache, nausea, vomiting. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: TC9575000

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 (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	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium phosphate	Listed	5000 lb (2270 kg)	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.
-----------------	---

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

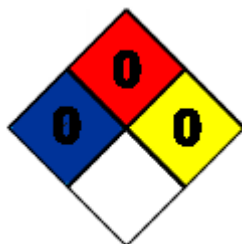
Physical and Chemical
Hazards N/A**HMIS**

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

SAFETY DATA SHEET

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

Page 1

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

SAFETY DATA SHEET

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

Page 2

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 3

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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.

SAFETY DATA SHEET

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

Page 4

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 5

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 6

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 7

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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)

SAFETY DATA SHEET

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

Page 8

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 9

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 10

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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.

SAFETY DATA SHEET

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

Page 11

Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

SAFETY DATA SHEET

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

Page 12

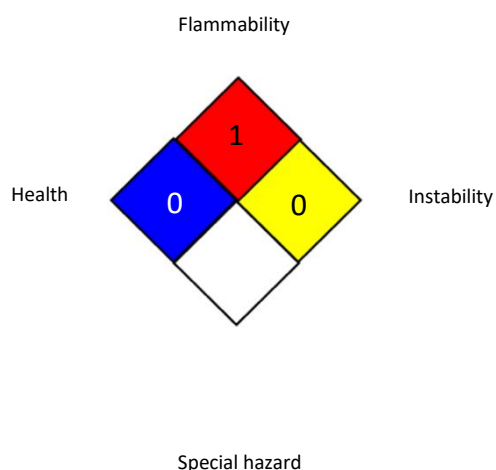
Substance key: SC0000901386

Revision Date: 04/20/2021

Version : 4 - 3 / USA

Date of printing :06/08/2021

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

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

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).

FICHA DE DATOS DE SEGURIDAD

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

Página 2

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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.

FICHA DE DATOS DE SEGURIDAD

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

Página 3

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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 (inhalable) 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.

FICHA DE DATOS DE SEGURIDAD

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

Página 4

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

FICHA DE DATOS DE SEGURIDAD

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

Página 5

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

FICHA DE DATOS DE SEGURIDAD

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

Página 6

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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 atmósfera: 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

FICHA DE DATOS DE SEGURIDAD

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

Página 7

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

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

Página 8

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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:

FICHA DE DATOS DE SEGURIDAD

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

Página 9

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

Página 10

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

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

Página 11

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

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

Página 12

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

Fecha de impresión: 06/08/2021

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

Página 13

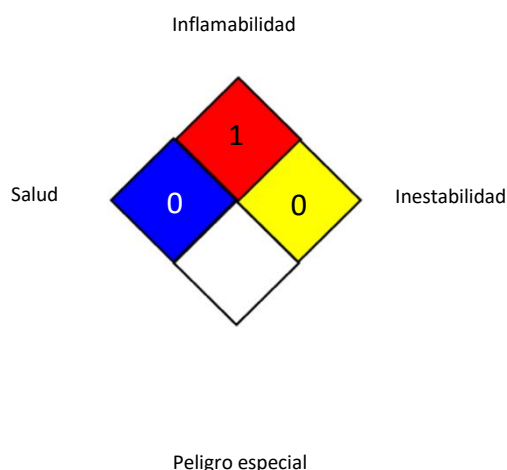
Código del material: SC0000901386

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

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

Página 14

Código del material: SC0000901386

Última revisión: 04/20/2021

Versión: 1 - 0 / USA

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



Safety Data Sheet (SDS)

Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 1: Identification

- 1.1 Product trade names:** Sphagnum peat moss
- 1.2 Product Class:** Natural organic planting mixes
- Product Codes: N/A
- CAS/EC Number: Product does not have a CAS or EC number.
- Intended Use: Domestic gardening, planting mixture, and other general horticultural purpose.

1.3 Supplier:

County Materials Corp.
205 North St., P.O. Box 100
Marathon, WI 54448-0100
General Information Telephone: (800) 289-2569
Email: riskclaimssafety@countymaterials.com

1.4 Emergency telephone:

715-223-7788

Section 2: Hazard(s) Identification

2.1 Classification:

This material is not considered hazardous according to the OSHA Hazard Communication Standard or GHS Hazard Classification and Labelling System.

2.2 Labeling:

Pictograms:

None.

Signal Word:

None.

Hazard Statements:

None.

Precautionary Statements:

P261 – Avoid breathing dusts.

P271 – Use only outdoors or in a well-ventilated area.

P280 – Wear protective gloves, protective clothing, and eye protection.

- 2.3 Other Hazards:** This product is not classified as hazardous under normal conditions of use and storage. Exposure to entrained dusts may occur during agitation of dried product and can cause irritation to respiratory system. Contact with eyes and skin may cause irritation.

Section 3: Composition/Information on Ingredients

Components	CAS Number	EC Number	Concentration%
Peat	--	--	100
This product contains natural agricultural components and decomposed organic matter. It is not anticipated to contain quantities of naturally occurring crystalline silica at greater than 0.1%.			



Safety Data Sheet (SDS)

Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 4: First-Aid Measures

4.1 Description of first aid measures:

Inhalation: Airborne dust may be inhaled. Remove person to fresh air. Seek medical attention if breathing difficulty develops or persists.

Skin Contact: Wash skin with soap and plenty of water. If irritation develops or persists, seek medical attention.

Eye Contact: Rinse eyes thoroughly with potable water for at least 15 minutes and remove contacts if easy to do. Rinse under eyelids to remove any particles. Seek medical attention for any abrasions or if irritation develops or persists.

Ingestion: Rinse mouth with copious amounts of water. If the person is conscious and aware, give large amounts of water to rinse material and taste from the mouth. Never attempt to make an unconscious person drink or vomit. If the person is unconscious it may be necessary to sweep the blockage out of the mouth using a finger. Seek emergency medical attention if deemed necessary.

4.2 Most important symptoms and effects:

Inhalation: May cause irritation of the respiratory tract.

Skin Contact: May cause irritation.

Eye Contact: May cause irritation, abrasions, redness, and permanent eye damage.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, choking/blockage.

4.3 Indication of any immediate medical attention and special treatment needed: See Section 4.1.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media: Product is not flammable. Use appropriate media for fire adjacent to product.

5.2 Special hazards arising from the substance or mixture: None known.

5.3 Advice to firefighters: None.

Section 6: Accidental Release Measures

6.1 Personal precautions: Wear dust-mask or respirator if airborne concentrations approach or exceed exposure limits detailed in Section 8.

6.2 Environmental precautions: Carefully clean up spilled material and place the material into suitable containers and hold for reuse or disposal. Dispose of the waste material in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up: Shovel material. Avoid sweeping to limit dried airborne dust.

6.4 Reference to other sections: Use information obtained throughout this SDS to be fully prepared in case of accidental release.

Section 7: Handling and Storage

7.1 Precautions for safe handling: Avoid excessive dust formation and breathing dust. Persons handling the product should wear recommended personal protective equipment (PPE) as noted in Section 8. Wash thoroughly with potable water and mild soap after handling. Use outdoors or provide ventilation.

7.2 Conditions for safe storage, including any incompatibilities: Store at ambient temperatures. Clean up by shovel, wet sweeping and/or vacuuming.

7.3 Specific end uses: See Section 1. for intended uses.



Safety Data Sheet (SDS)

Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters: Note the limits shown below are for guidance only. Follow applicable regulations in your jurisdiction.

Substance Name	Source	Exposure Limit
Total Dust (or Particulates Not Otherwise Classified)	ACGIH	10 mg/m ³ (I) / 3 mg/m ³ (R)
	OSHA	15 mg/m ³ (T) / 5 mg/m ³ (R)
	NIOSH	10 mg/m ³ (T) / 5 mg/m ³ (R)

8.1.1 Currently recommended monitoring procedures: No recommendations.

8.1.2 Exposure guidelines for air contaminants, if any: See Section 8.1

8.1.3 DNELS and PNECS for exposure scenarios: Information not available at this time.

8.1.4 Control banding for risk management: Use good industrial hygiene practice, wear appropriate PPE and use only in well ventilated places.

8.2 Exposure Controls:

8.2.1 Appropriate engineering controls: If used in an enclosed area, provide adequate local exhaust ventilation when possible to remove and prevent buildup of any dusts generated from the handling of this product. Water suppression may also be used to limit airborne dusts from dried product during application or use.

8.2.2 Individual protection methods: Use good industrial hygiene practices in handling this material. Eye wash stations should be available. Wash exposed skin with potable water and mild soap after use. If any irritation or redness is noted, treat symptomatically or consult a doctor immediately. Wear gloves, safety glasses/goggles and protective clothing. In case of eye contact, flush with plenty of clean, potable water for at least 15 minutes. Remove contacts if easy to do so. Seek medical attention if irritation occurs. Avoid dust inhalation and direct contact with skin and eyes. Wash contaminated skin before eating, drinking or smoking.

8.2.3 Personal Protective Equipment:

Eye/Face: Use appropriate eye protection: glasses with side shields or goggles.

Skin: Avoid contact by covering skin with protective clothing. Wear gloves when handling the product. Wear eye protection. Wash exposed skin thoroughly with potable water and mild soap.

Respiratory: If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respirator if qualified.



Safety Data Sheet (SDS)

Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 9: Physical and Chemical Properties

Physical State:	Combined blend of material
Color:	Varying brown/black shades
Odor:	Earthy
Odor Threshold:	Not applicable
Melting Point:	Not applicable
Freezing Point:	Not applicable
Initial Boiling Point:	Not applicable
Flammability (solid, gas):	Not applicable
Lower and Upper Explosion Limits/Flammability Limit:	Not applicable
Flash Point:	Non-flammable
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	Not evaluated
pH:	5 - 7
Kinematic Viscosity:	Not applicable
Solubility:	Non-soluble
Partition Coefficient:	Not applicable
Vapor Pressure	Not applicable
Density (and/or Relative Density):	Not evaluated
Relative Vapor Density:	Not applicable
Particle Characteristics:	Variable sizes

Section 10: Stability and Reactivity

10.1 Reactivity: None known.

10.2 Chemical stability: Stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions: Avoid contact with powerful oxidizing agents.

10.4 Conditions to avoid: Avoid dust concentrations above permissible exposure limits.

10.5 Incompatible materials: Incompatible materials and possible hazardous reactions are detailed in Section 10.3.

10.6 Hazardous decomposition or byproducts: Highly improbable. Hazardous polymerization will not occur.

Section 11: Toxicological Information

11.1 Information on toxicological effects:

Acute Exposure and Symptoms:

Inhalation: May cause irritation of the respiratory system.

Skin Contact: May cause irritation.

Eye Contact: May cause irritation, abrasions, redness, and permanent eye damage.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation, choking/blockage.

Chronic Exposure:

Prolonged exposure to dust may cause irritation to the respiratory tract, inflame or sensitize the nose, throat and lungs resulting in illnesses such as asthma or pneumonia.

Numerical Measures of Toxicity

There no numerical measures of toxicity available for the product at this time.



Safety Data Sheet (SDS)

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Material Name: Peat

Section 11: Toxicological Information

Component Carcinogenicity

This product is not a known or suspected carcinogen.

Specific Target Organ Toxicity Single/Repeat Exposure – Respiratory System

Repeated inhalation of dusts can lead to irritation of the respiratory tract, inflame or sensitize the nose, throat and lungs resulting in illnesses such as asthma or pneumonia. Exposure to dust may occur with agitation of the product if the product is dry.

Skin Sensitizer

Not expected to be a skin sensitizer.

Section 12: Ecological Information (non-mandatory)

12.1 Ecotoxicity:

General Product Information: Product when used as intended is not hazardous to the environment.

Component Analysis - Ecotoxicity : Ecotoxicity data are not available for this product's.

Environmental Fate: No information available for the product.

Section 13: Disposal Considerations (non-mandatory)

13.1 Waste treatment methods:

General Product Information: Whatever cannot be saved or recovered for recycling should be disposed of according to state and local regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information (non-mandatory)

Product is not classified as Dangerous Goods.

Section 15: Regulatory Information (non-mandatory)

15.1 Safety, health, and environmental regulation:

US Federal Regulations

General Product Information: No component is listed on the U.S. EPA TSCA Inventory List.

Component Analysis: Components of this product are not listed as hazardous under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

General Product Information: Other state regulations may apply. Check individual state requirements.

California Prop. 65 Components: This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.



Safety Data Sheet (SDS)

Prepared to comply with GHS (Globally Harmonized System) and OSHA-Hazard Communication Standard 29 CFR.1910.1200, System of Classifying and Labeling of Chemicals

Material Name: Peat

Section 15: Regulatory Information (non-mandatory)

Section 16: Other Information

Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

Key to Abbreviations and Acronyms:

ACGIH:	American Conference of Governmental Industrial Hygienists
DNEL:	Derived No Effect Level
EINECS:	European Inventory of Existing Commercial Chemical Substances
EPA:	Environmental Protection Agency
EU:	European Union
GHS	Globally Harmonized System of classification and labelling of chemicals
IARC:	International Agency for Research on Cancer
I:	Inhalable Particles
LC50:	Lethal concentration in air fatal to 50 percent of test animals
LD50:	Lethal dose by mouth or other route to 50 percent of test animals
LDLo:	Lowest lethal dose
NIOSH:	National Institute for Occupational Safety and Health
NJTSTR:	New Jersey Trade Secret Registry
NOEC:	No Observed Effect Concentration
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration (USA)
PNEC:	Predicted No Effect Concentration
PNOC:	Particulates Not Otherwise Classified
PPM:	Parts Per Million
R:	Respirable Particles
STEL:	Short Term Exposure Limit
T:	Total Dust
TLV:	Threshold Limit Value
TSCA:	Toxic Substance Control Act
TWA:	Time weighted average

**** This is the end of SDS – Peat ****

MATERIAL SAFETY DATA SHEET

04/03/2018

1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER OR DISTRIBUTOR : Bangkit USA INC
10511 Valley Boulevard
El Monte, CA 91731

INFORMATION TELEPHONE NUMBER : 626-672-0888

EMERGENCY TELEPHONE NUMBER : Call Local Poison Control Center

PRODUCT NAME : BAZIC MODELING DOUGHS

2. COMPOSITION ON INGREDIENTS

INGREDIENT NAME	CAS#
Starch Soluble	9005-84-9
Water	7732-18-5
Sodium Chloride	7647-14-5
Glycerol	56-81-5
Pigment Colors	

3. HAZARD IDENTIFICATION

This product, when used under reasonable conditions and accordance with the normal use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's direction for use may affect the performance of the product and may present potential health and safety hazards.

POTENTIAL HEALTH EFFECTS

Eye Contact : is not expected to occur during normal use of the product.

Skin Contact : is not expected to result in significant irritation during product use.

Inhalation : is not expected to occur during normal use of the product.

Ingestion : no health effects are expected.

4. FIRST AID MEASURES

Skin contact : No effect of exposures expected.
Eye contact : No effect of exposure expected.
Inhalation : No effect of exposure expected.
Ingestion : If the product is swallowed, please contact physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable : N/A
Flash point : 350° C

EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam)

PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures : water may be used to blanket the fire
Unusual Fire and Explosion Hazards : no unusual fire or explosion hazards are anticipated.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures : Not Applicable

7. HANDLING AND STORAGE

HANDLING

Use methods to minimize dust.

STORAGE

Store and handle in accordance with all current regulations and standards. See original containers for storage recommendations. Keep separated from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Not Applicable

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection	: Not Applicable.
Skin Protection	: Not applicable. Gloves not normally required. Avoid prolonged or repeated skin contact.
Respiratory Protection	: Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.
Prevention of Swallowing	: Not an expected route of exposure.

EXPOSURE GUIDELINES

None Established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Solid	Flash Point	: N/A
Physical State	: Solid	Flammability	: N/A
Physical Form	: Solid	Vapor Pressure	: N/A
Color	: Assorted colors	Vapor Density (air=1)	: N/A
Odor	: Odorless	Evaporation Rate	: N/A
Odor Threshold	: N/A	Specific Gravity	: N/A
pH	: N/A	Density	: N/A
Melting Point	: N/A	Water Solubility	: N/A
Freezing Point	: N/A	Coeff. Water/Oil Dist	: N/A
Boiling Point	: N/A	Volatility	: N/A
Viscosity	: N/A		

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable at normal temperatures and pressure.
Conditions to Avoid	: None reported.
Materials to Avoid	: Oxidizing materials.
Decomposition Products	: Oxides of carbon.
Possibility of Hazardous Reactions	: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined

CHEMICAL FATE INFORMATION

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method : Dispose in accordance with all applicable regulations

Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORT INFORMATION

No special requirement

15. REGULATORY INFORMATION

Not available

16. OTHER INFORMATION

Not available

DISCLAIMER : the information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. Bazic Products **MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.** User is responsible for determining whether the Bazic product is fit for particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Bazic product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Bazic product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.



Sakrete Sands & Gravel

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Date of issue: 09/26/2016

Revision date: 01/31/2018

Version: 1.0

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

1.1. Product identifier

Product name : Sakrete Sands & Gravel
Product code : Not available

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

Recommended use : Various

1.3. Details of the supplier of the safety data sheet

Sakrete of North America
625 Griffith Rd., Ste 100
Charlotte, NC 28217
T 866-725-7383

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 [USA] / +1 703-527-3887 [CAN]

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Carc. 1A
STOT RE 1

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS-US) : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No additional information available.

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%
Quartz	(CAS No) 14808-60-7	60 - 100

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Sakrete Sands & Gravel

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 4: First aid measures

4.1. Description of first aid measures

- | | |
|---------------------------------------|---|
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. |
| First-aid measures after eye contact | : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention. |
| First-aid measures after ingestion | : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

- | | |
|--------------------------------------|---|
| Symptoms/injuries after inhalation | : May cause respiratory tract irritation. |
| Symptoms/injuries after skin contact | : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Symptoms/injuries after eye contact | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. |

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|-----------------------------------|
| Suitable extinguishing media | : Treat for surrounding material. |
| Unsuitable extinguishing media | : None known. |

5.2. Special hazards arising from the substance or mixture

- | | |
|-------------|---|
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon. |
|-------------|---|

5.3. Advice for firefighters

- | | |
|--------------------------------|--|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|------------------|--|
| General measures | : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
|------------------|--|

6.2. Methods and material for containment and cleaning up

- | | |
|-------------------------|--|
| For containment | : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). |
| Methods for cleaning up | : Vacuum or sweep material and place in a disposal container. |

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with skin and eyes. Do not breathe dust. Do not swallow. Handle and open container with care. Avoid dust formation. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. When using do not eat, drink or smoke. |
| Hygiene measures | : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|--------------------|---|
| Storage conditions | : Keep out of the reach of children. Keep container tightly closed. Avoid any dust build-up by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. |
|--------------------|---|

7.3. Specific end use(s)

Not available.

Sakrete Sands & Gravel

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
OSHA	OSHA PEL (mg/m ³)	(30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust) (250)/(%SiO ₂ + 5) mppcf TWA (respirable fraction) (10)/(%SiO ₂ + 2) mg/m ³ TWA (respirable fraction)

8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable waterproof gloves.
Eye protection	: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection	: Wear suitable waterproof protective clothing.
Respiratory protection	: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular powder
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available.

Sakrete Sands & Gravel

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions. Keep dry in storage.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Moisture. Wet cement is alkaline and incompatible with acid, ammonium salts and aluminum metal.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sakrete Sands & Gravel	
LD50 oral rat	No data available
LD50 dermal rat	No data available
LC50 inhalation rat	No data available

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitization : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : May cause cancer.

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure. Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Aspiration hazard : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

12.2. Persistence and degradability

Sakrete Sands & Gravel	
Persistence and degradability	Not established.

Sakrete Sands & Gravel

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

12.3. Bioaccumulative potential

Sakrete Sands & Gravel

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.3. US State regulations

Sakrete Sands & Gravel

State or local regulations	This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
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SECTION 16: Other information

Date of issue : 09/26/2016

Revision date : 01/31/2018

Other information : None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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 NITRATE**Synonyms** Nitrate of Soda / Chile Saltpeter

Section 2 Hazards Identification

Signal word: WARNING**Pictograms:** GHS03 / GHS07**Target organs:** Red blood cells**GHS Classification:**

Oxidizing solid (Category 3)

Acute toxicity, oral (Category 4)

Eye irritation (Category 2A)

GHS Label information: Hazard statement:

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220: Keep away from clothing/incompatible/combustible materials.

P221: Take any precaution to avoid mixing with combustibles/acids/oxidizers.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

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

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

P370+P378: In case of fire: Use water to extinguish.

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
Sodium nitrate	7631-99-4	100%	231-554-3

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 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: 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. Do not use dry chemicals or foams. CO₂ or Halon® may provide limited control.

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. Although not flammable, substance is a strong oxidizer which releases oxygen on heating, increasing the burning rate of any material with a flare-burning effect. It may cause re-ignition after a fire is extinguished.

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 reuse if not contaminated. Remove all sources of ignition. 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. 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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Solid, colorless 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: 380°C (716°F)
pH: Data not available.	Vapor pressure (mm Hg): Negligible	Viscosity: Data not available.
Melting / Freezing point: 307°C (584°F)	Vapor density (Air = 1): Data not available	Molecular formula: NaNO ₃
Boiling point: Data not available	Relative density (Specific gravity): 2.261 @ 25°C	Molecular weight: 84.99
Flash point: Non-flammable	Solubility(ies): 73 g/100 mL water	

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. 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

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: 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

Section 12 Ecological Information

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

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

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 (US DOT / CANADA TDG)

UN/NA number: UN1498 **Shipping name:** Sodium nitrate

Hazard class: 5.1 **Packing group:** III **Reportable Quantity:** No **Marine pollutant:** No

Exceptions: Limited quantity equal to or less than 5 Kg **2016 ERG Guide #** 140

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

Page E1 of E2



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

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Not for drug, food or household use.

Product GREEN DYE SOLUTION**Synonyms** Food Coloring - Green 1.25%

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 mist/vapours/spray. 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
Water	7732-18-5	98.750%	231-791-2
FD&C Blue #1 (C.I. No. 42090)	3844-45-9	0.625%	223-339-8
FD&C Yellow #5 (C.I. No. 19140)	1934-21-0	0.625%	217-699-5

Section 4 First aid measures

INGESTION: MAY BE HARMFUL BY 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: 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

Page E2 of E2

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.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	FD&C Blue #1	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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Liquid, light green. 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.

Incompatible materials: Strong oxidizers, reducing agents.

Hazardous decomposition products: Oxides of carbon, nitrogen oxides, sulfur oxides.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: >2,000 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: Not expected to be a health hazard.
Ingestion: May be harmful by ingestion.
Skin: Contact may cause irritation.
Eyes: Contact may cause irritation.
Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.
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 **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
FD&C Blue #1 (C.I. No. 42090)	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.
FD&C yellow #5 (C.I. No. 19140)	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.

Section 1 Identification

Page E1 of E2



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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 FD&C RED #3**Synonyms** Food Coloring - Red 0.5% Aqueous Solution / Food Dye Red #3 / Food Coloring Red #3 / Dye, Vegetable

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 mist/vapours/spray. 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
Water	7732-18-5	99.5%	231-791-2
FD&C Red #3 (C.I. No. 45430)	16423-68-0	0.5%	240-474-8

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: 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

Page E2 of E2

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.

Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	FD&C Red #3	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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical and chemical properties

Appearance: Liquid, clear, light red.	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.

Incompatible materials: Strong oxidizers, reducing agents.

Hazardous decomposition products: Oxides of carbon, nitrogen oxides, sulfur oxides.

Section 11 Toxicological information

Acute toxicity: Oral-rat LD50: >2,000 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: Data not available
STOT-repeated exposure: Data not available
Aspiration hazard: Data not available
Potential health effects:
Inhalation: Not expected to be a health hazard.
Ingestion: May be harmful by ingestion.
Skin: Contact may cause irritation.
Eyes: Contact may cause irritation.
Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.
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 **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
FD&C Red #3 (C.I. No. 45430)	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.