

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

- 1.1 Product identifier
  - Product Name: Nutrient Agar
  - Product Part Number: 7145
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  - Use of the substance/preparation: For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.
  - Use advised against: No information available
- 1.3 Details of the supplier of the safety data sheet
  - Name of Manufacturer: Acumedia Manufacturers, Inc.
  - Address of Manufacturer: 740 East Shiawassee Lansing, Michigan 48912 USA
  - Telephone: 517/372-9200
  - Email: Foodsafety@neogen.com
- 1.4 Emergency telephone number
  - Emergency Telephone: Chemtrec: (800) 424-9300 Outside USA and Canada: +1 (703) 527-3887

## SECTION 2 Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
  - Not classified as hazardous for supply
  - Classification (67/548/EEC, 1999/45/EC) (OSHA 29 CFR 1910.1200)
  - Not classified as hazardous for supply
  - Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16
- 2.2 Label elements
  - Signal Word: None
  - Symbols: None
  - Hazard phrases
    - None
  - Precautionary Phrases
    - Keep container tightly closed.
    - Do not breathe dust
    - Do not get in eyes, on skin, or on clothing.
- 2.3 Other hazards
  - Mildly irritating to skin and eyes
  - Mildly irritating to respiratory system

# SECTION 3 Composition/information on ingredients

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



## SECTION 4 First aid measures

## 4.1 Description of first aid measures

- Contact with skin

Remove contaminated clothing

Wash affected area with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention.

Contaminated clothing should be laundered before reuse

- Contact with eyes

If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes

Irrigate eyes thoroughly while lifting eyelids

Seek medical advice if necessary

- Ingestion

Rinse mouth with water (do not swallow)

Never make an unconscious person vomit or drink fluids

If medical advice is needed, have product container or label at hand.

- Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

- 4.2 Most important symptoms and effects, both acute and delayed
  - May cause irritation
- 4.3 Indication of any immediate medical attention and special treatment needed
  - Treat symptomatically

# SECTION 5 Fire-fighting measures

- 5.1 Extinguishing media
  - In case of fire: use foam, carbon dioxide or dry agent for extinction
- 5.2 Special hazards arising from the substance or mixture
  - Smoke from fires is toxic. Take precautions to protect personnel from exposure
  - Decomposition products may include carbon oxides
  - May form explosive dust/air mixtures
  - See Section 10
- 5.3 Advice for firefighters
  - Keep container(s) exposed to fire cool, by spraying with water
  - Wear chemical protection suit and positive-pressure breathing apparatus
  - Wear protective clothing as per section 8

## SECTION 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Shut off all ignition sources
  - Use non-sparking hand tools



# SECTION 6 Accidental release measures (continued)

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

#### 6.2 Environmental Precautions

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

## 6.3 Methods and material for containment and cleaning up

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

## 6.4 Reference to other sections

- See Section 7

# SECTION 7 Handling and storage

#### 7.1 Precautions for safe handling

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

# 7.2 Conditions for safe storage, including any incompatibilities

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

#### 7.3 Specific end use(s)

- For the cultivation of a wide variety of microorganisms. Conforms to FDA/BAM formulation.

# SECTION8 Exposure controls/personal protection

# 8.1 Control parameters

- There are no recommended or established controls for this product

## 8.2 Exposure controls

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



# SECTION 8 Exposure controls/personal protection (continued)

- Wear suitable protective clothing







# SECTION 9 Physical and chemical properties

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

# SECTION 10 Stability and reactivity

- 10.1 Reactivity
  - No information available
- 10.2 Chemical stability
  - Considered stable under normal conditions
- 10.3 Possibility of hazardous reactions
  - No hazardous reactions known if used for its intended purpose
- 10.4 Conditions to avoid
  - Avoid contact with moisture
  - Keep away from heat and sources of ignition
- 10.5 Incompatible materials
  - Incompatible with oxidizing substances
- 10.6 Hazardous Decomposition Products
  - Decomposition products may include carbon oxides



# SECTION 11 Toxicological information

#### 11.1 Information on toxicological effects

- No experimental data available
- Contact with skin

May cause redness and irritation

- Contact with eyes

May cause redness and irritation

- Ingestion

May cause irritation of the throat

- Inhalation

May cause coughing

- Carcinogenicity

No evidence of carcinogenic effects

- Mutagenicity

No evidence of mutagenic effects

- Teratogenicity

No information available

# SECTION 12 Ecological information

## 12.1 Toxicity

- No information available

#### 12.2 Persistence and degradability

- No information available

#### 12.3 Bioaccumulation Potential

- No information available

# 12.4 Mobility in soil

- No information available

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Other Adverse Effects

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

# SECTION 13 Disposal considerations

#### 13.1 Waste treatment methods

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

# 13.2 Classification (REACH)

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



# SECTION 14 Transport information

## 14.1 UN Number

Not classified as hazardous for transport

## 14.2 UN Proper Shipping Name

- Not applicable
- 14.3 Transport hazard class(es)
  - Not applicable

#### 14.4 Packing group

- Not applicable
- 14.5 Environmental hazards
  - Not Classified
- 14.6 Special precautions for user
  - Not Classified
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
  - Not Classified

#### 14.8 DOT

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

# 14.9 Road/Rail (ADR/RID)

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

# 14.10 Sea (IMDG)

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

#### 14.11 Air (ICAO/IATA)

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

# SECTION 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010 and OSHA Hazard Communication Standard 29 CFR 1910.1200.
  - Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- 15.2 Chemical Safety Assessment
  - No information available
- 15.3 United States Regulatory Information



# Safety Data Sheet

# SECTION 15 Regulatory information (continued)

## SARA 302 Components

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

#### SARA 313 Components

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

SARA 311/312 No SARA Hazards

## SECTION 16 Other information

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

# 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 classifed 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

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**Precautionary Statements -**

Wash hands thoroughly after handling

Prevention

**Precautionary Statements -**

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ŚWALLOWED:

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  | Sulfuric acid,  | No           | 68585-47-7 | 15 - 20  |
| esters, sodium salts  | mono-C10-16-alkyl   |              |            |          |
|   | esters, sodium salts  |              |            |          |
| Poly(oxy-1,2-ethanediyl),<br>alpha-sulfo-omega-hydroxy-,<br>C10-16-alkyl ethers, sodium salts | Poly(oxy-1,2-ethanediyl),<br>alpha-sulfo-omega-hydro<br>xy-, C10-16-alkyl ethers,<br>sodium salts |              | 68585-34-2 | 5 - 10   |
| Amine oxides, C10-16-alkyldimethyl  | Amine oxides,<br>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.

# 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media Dry chemical, CO<sub>2</sub>, 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

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(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

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.

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               | Mexico: TWA 1000 ppm               |
|               |         |                | TWA: 1900 mg/m <sup>3</sup> | Mexico: TWA 1900 mg/m <sup>3</sup> |
|               |         |                | (vacated) TWA: 1000 ppm     | _                                  |
|               |         |                | (vacated) TWA: 1900         |                                    |
|               |         |                | mg/m³                       |                                    |

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

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

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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

Boiling point/boiling range
Flash point

Evaporation rate
Flammability (solid, gas)

No information available

100 - 104 °C / 212 - 219 °F

No Flash to Boiling (NFTB)

No information available

No information available

Flammability Limits in Air

Upper flammability limitNo information availableLower Flammability LimitNo information availableVapor pressureNo information availableVapor densityNo information available

Relative density 1.04 Water solubility 100%

Solubility in other solvents

No information available

Partition coefficient: n-octanol/water No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity of Product No information available

VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer

products.

# 10. STABILITY AND REACTIVITY

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**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

InhalationNo known effect.Skin contactNo known effect.IngestionNo known effect.Eye contactIrritating 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),         | 68585-34-2 | >2001 mg/kg | -           | -               |
| alpha-sulfo-omega-hydroxy-,       |            |             |             |                 |
| C10-16-alkyl ethers, sodium salts |            |             |             |                 |

# 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

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regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Codes 331

(non-household setting)

#### 14. TRANSPORT INFORMATION

DOTNot regulatedIMDGNot 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<br>Substances RQs | Extremely Hazardous Substances RQs | CERCLA/SARA 302<br>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<br>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<br>Quantities | CWA - Toxic<br>Pollutants | CWA - Priority<br>Pollutants | CWA - Hazardous<br>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          |

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| 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**

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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** 

#### SAFETY DATA SHEET

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



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Formalin Fixed Specimens In Preserved Holding Solution – Excluding Fetal Pigs, Cats, Grassfrogs,

Bullfrogs, Rabbits, Rats, Mink Science education applications

Synonyms: None

Manufacturer/Supplier: Ranaco Corporation, 4345 E Irvington Road, Tucson, AZ 85714

General Information: 800-528-7023

**Transportation Emergency Number:** 800-424-9300 Chemtrec – 24 hours assistance

#### **SECTION 2: HAZARD IDENTIFICATION**

# DANGER

Recommended Use:



#### Targeted organs:

Eyes, Skin, Central Nervous System, Respiratory Tract

#### **GHS Classification:**

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

#### **Hazard Statements:**

Maybe harmful if swallowed. Causes skin irritation. Causes eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause cancer.

## **Precautionary Statements:**

Obtain special instructions before use. Wear protective gloves and eye protection. Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

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

IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if

present and easy to do so. Continue rinsing.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or physician

IF exposed or concerned: Get medical advice/attention.

Store in a well- ventilated place. Keep container tightly closed.

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

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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

## **SECTION 4: FIRST AID MEASURES**

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

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

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

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

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

#### **SECTION 5: FIRE FIGHTING MEASURES**

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

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

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

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

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

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

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

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

#### **SECTION 7: HANDLING AND STORAGE**

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

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

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Limits:**

| Chemical Name                    | ACGIH (TLV)                          | OSHA (PEL)                   | NIOSH (REL)                    |
|----------------------------------|--------------------------------------|------------------------------|--------------------------------|
| Formaldehyde                     | C 0.3 ppm / C 0.37 mg/m <sup>3</sup> | TWA: 0.75 ppm / STEL: 2ppm   | TWA: 0.016 ppm / STEL: 0.1 ppm |
| Methanol                         | TWA: 200 ppm / STEL: 250 ppm         | TWA: 200 ppm / STEL: 260 ppm | TWA: 200 ppm / STEL: 250 ppm   |
| Ethylene Glycol Monophenyl Ether | Not available                        | Not available                | Not available                  |
|                                  | WEEL                                 |                              |                                |
| Propylene Glycol                 | TWA 10 mg/m³ Aerosol                 | Not available                | Not available                  |

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

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

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

#### **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

Appearance: Specimen with/without clear colorless liquid

Odor: Mild pungent odor

Odor Threshold: Data not available

pH: Data not available

Melting/Freezing Point: Data not available

**Boiling Point:** Data not available **Flash Point:** Data not available **Evaporation Rate** (Water = 1): >1

Flammability (solid/gas): Data not available Explosion Limits: Lower/Upper: Data not available Vapor Pressure (mmHg): Data not available

Vapor Density: Data not available
Relative Density (Specific Gravity): >1
Solubility(ies): Complete in water
Partition Coefficient: Data not available
Auto-ignition Temperature: Data not available

Decomposition Temperature: Data not available

Decomposition Temperature: Data not available

Viscosity: Data not available Molecular Formula: Mixture Molecular Weight: Mixture

#### **SECTION 10: STABILITY & REACTIVITY**

Reactivity: None under normal conditions.

Chemical Stability: Stable

Conditions to Avoid: Excessive temperatures which cause evaporation.

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

products, gelatin, bisulfate Hazardous Polymerization: None under normal conditions.

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

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

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

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

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

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

Chronic Effects: Data not available.

Skin Corrosion/Irritation:

Causes skin irritation. May cause an allergic skin reaction.

Serious Eye Damage/Irritation:

Causes eye irritation or damage.

Respiratory or Skin Sensitization:

May cause sensitization by skin contact

Germ Cell Mutagenicity: Data not available.

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

Formaldehyde - Classified as a carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology

Program (NTP) and OSHA. CA Prop 65: Formaldehyde is known to the State of California to cause cancer.

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

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

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

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

Aspiration Hazard: Data not available.

#### Potential Health Effects:

Inhalation: May cause respiratory irritation. Ingestion: May be harmful if swallowed.

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

Eyes: May cause eye irritation or damage.

#### Signs and Symptoms of Exposure:

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

#### **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity to fish: No data available.

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

Toxicity to algae: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

PBT and vPvB assessment: No data available.

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

#### SECTION 13: DISPOSAL CONSIDERATIONS

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

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

UN/NA Number: Not applicable

Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Reportable Quantity: No

Marine Pollutant: No

**Exceptions:** Not applicable

2012 ERG Guide#: Not applicable

#### SECTION 15: REGULATORY INFORMATION

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

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

#### California Proposition 65 Information:

△WARNING: This product can expose you to chemicals including formaldehyde, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### SECTION 16: OTHER INFORMATION

Supersedes: April 24, 2018 Date Prepared: July 23, 2018

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

#### Section 1 Chemical Product and Company Identification

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 ISOPROPYL ALCOHOL, 90%
Synonyms Isopropanol, 90% Solution

Section 2 Hazards Identification

Signal word: DANGER Pictograms: GHS02 / GHS07

Target organs: Central nervous system, Liver, Kidneys.





**GHS Classification:** 

Flammable liquid (Category 2) Eye irritation (Category 2) STOT-SE (Category 3)

GHS Label information: Hazard statement(s):

H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

#### Precautionary statement(s):

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

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapours/spray.
P264: Wash hands thoroughly after handling.

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

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

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

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

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                 |  |  |
| Isopropyl alcohol<br>Water                         |  | 67-63-0<br>7732-18-5 | 90% | 200-661-7<br>231-791-2 |  |  |

#### 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. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES 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: Carbon dioxide, dry chemical, dry sand, alcohol foam.

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

#### Section 6 Accidental Release Measures

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

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

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

Page E1 of E2

Page E2 of E2 Section 7 Handling & Storage

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

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

| Section 8        | Exposure Controls / Personal Protection |                              |                                      |                              |  |  |  |
|------------------|---|------------------------------|--------------------------------------|------------------------------|--|--|--|
| Exposure Limits: | Chemical Name                           | ACGIH (TLV)                  | OSHA (PEL)                           | NIOSH (REL)                  |  |  |  |
| Exposure Limits. | Isopropanol                             | TWA: 200 ppm / STEL: 400 ppm | TWA: 400 ppm / 980 mg/m <sup>3</sup> | TWA: 400 ppm / STEL: 500 ppm |  |  |  |

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/MSHAapproved respirator.

#### **Physical & Chemical Properties** Section 9

Appearance: Clear, colorless liquid. Odor: Aromatic odor Odor threshold: Data not available

pH: Data not available

Melting / Freezing point: -90°C (-130°F)\* Boiling point: 82°C (179.6°F)\* Flash point: 18.3°C (65°F) CC \*

Evaporation rate ( Butyl acetate = 1): >1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: 2% / 12% \* Vapor pressure (mm Hg): 33 mm @20°C ' Vapor density (Air = 1): 2.1 \*

Relative density (Specific gravity): 0.786-0.79 @ 20°C

Solubility(ies): Complete in water.

Partition coefficient: (n-octanol / water): Data not available Auto-ignition temperature: 399°C (750°F) ASTM-E659-78 Decomposition temperature: Data not available.

Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture

\*Pure Isopropanol

#### Section 10 Stability & Reactivity

Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition.

Incompatible materials: Strong oxidizing materials, caustics, aluminums, metals, nitroform, oleum, chlorinated compounds can react vigorously with this alcohol.

Hazardous decomposition products: Oxides of carbon.

#### Section 11 **Toxicological Information**

Acute toxicity: Oral-rat LD50: 4396 mg/kg; Inhalation-rat LC50: 72.6 mg/L/4 hours; Dermal-rat LD50: 12,000 mg/kg

Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Eyes-rabbit - Irritating. Respiratory or skin sensitization: Not sensitizing Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

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

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans

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

STOT-repeated exposure: Data not available

Aspiration hazard: Yes Potential health effects:

Inhalation: Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Continued inhalation may result in unconsciousness and death.

Ingestion: Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can develop if this occurs

Skin: Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatitis.

Eyes: Contact causes burning sensation, redness, swelling, and/or blurred vision. Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: NT8050000 [Isopropanol]

#### Section 12 **Ecological Information**

Toxicity to fish: Pimephales promelas (Fish, fresh water) LC50: 9640 mg/L/96 hours [Isopropanol]

Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [Isopropanol]

Toxicity to algae: Scenedesmus quadricauda (Algae), LOEC50 = 1,800 mg/L/7 days [Isopropanol] 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.

#### **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: UN1219 Shipping name: Isopropanol solution

Hazard class: 3 Packing group: || Reportable Quantity: No Marine pollutant: No

2016 ERG Guide # 129 **Exceptions:** Limited quantity equal to or less than 1 L

#### 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  |
| Isopropyl alcohol                     | Listed | Not listed  | Not listed | Listed | Not listed | This product does not contain<br>any chemicals known to the State<br>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

Revision Date: August 24, 2018 Supercedes: September 13, 2017 Form 06/2015

Issuing Date No data available

Revision Date 13-May-2015

**Revision Number** 2



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

**Product identifier** 

Product Name permanent marker black ink

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Pens

Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier Name** Wenzhou Aihao Pen Trade Co., Ltd

**Supplier Address** No.128, Wenchang Road, Longwan Zone

Wenzhou Zhejiang 325011 CN

Supplier Phone Number Phone:86-13524536325

Contact Phone86-021-68622126

Supplier Email 732314056@qq.com

Emergency telephone number

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Skin corrosion/irritation                        | Category 2 |
|--|------------|
| Serious eye damage/eye irritation                | Category 1 |
| Germ cell mutagenicity                           | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |



\_\_\_\_\_

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Hazard Statements
Causes skin irritation
Causes serious eye damage
Suspected of causing genetic defects
May cause drowsiness or dizziness

Appearance Black

Physical state Solid containing liquid

Odor Alcohol

#### **Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention Specific treatment (see supplemental first aid instructions on this label)

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

#### Inhalation

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

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## **Hazards not otherwise classified (HNOC)**

Not applicable



#### **Unknown Toxicity**

10.6% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

May be harmful if swallowed

Toxic to aquatic life with long lasting effects

#### **Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

.

| Chemical Name                          | CAS No      | Weight-% | Trade Secret |
|--|-------------|----------|--------------|
| Third Party Formulation (TP # 1196598) | Proprietary | 30 - 60  | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 15 - 40  | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 1 - 5    | *            |
| Third Party Formulation (TP # 1196598) | Proprietary | 1 - 5    | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST AID MEASURES

#### First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical

attention/advice.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get

medical attention if irritation develops and persists.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth

to an unconscious person. Do NOT induce vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Use personal protective equipment as

required. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

Burning sensation. Inhalation of high vapor concentrations may cause symptoms

like headache, dizziness, tiredness, nausea and vomiting.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.



**Effects** 

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

Uniform Fire Code Irritant: Solid

#### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

#### 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 skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.



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# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### **Exposure Guidelines**

| Chemical Name                          | ACGIH TLV     | OSHA PEL                              | NIOSH IDLH                  |
|--|---------------|---------------------------------------|-----------------------------|
| Third Party Formulation (TP # 1196598) | STEL: 100 ppm | (vacated) TWA: 100 ppm                | TWA: 100 ppm                |
|  | TWA: 50 ppm   | (vacated) TWA: 360 mg/m <sup>3</sup>  | TWA: 360 mg/m <sup>3</sup>  |
|  |               | (vacated) STEL: 150 ppm               | STEL: 150 ppm               |
|  |               | (vacated) STEL: 540 mg/m <sup>3</sup> | STEL: 540 mg/m <sup>3</sup> |
| Third Party Formulation (TP # 1196598) | TWA: 100 ppm  | TWA: 200 ppm                          | IDLH: 800 ppm               |
|  |               | TWA: 500 mg/m <sup>3</sup>            | TWA: 200 ppm                |
|  |               | (vacated) TWA: 200 ppm                | TWA: 500 mg/m <sup>3</sup>  |
|  |               | (vacated) TWA: 500 mg/m <sup>3</sup>  | STEL: 250 ppm               |
|  |               | (vacated) STEL: 250 ppm               | STEL: 625 mg/m <sup>3</sup> |
|  |               | (vacated) STEL: 625 mg/m <sup>3</sup> |                             |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992) See section 15 for national exposure control parameters

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/face protection**None required for consumer use. If there is a risk of contact:. Tight sealing safety goggles.

**Skin and body protection**None required for consumer use. Wear protective gloves and protective clothing. Long

sleeved clothing. Impervious gloves.

**Respiratory protection**No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or



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smoke when using this product. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Physical and Chemical Properties**

Physical state

| yo.ou. otato | Cond containing inquite  |                |                          |
|--------------|--------------------------|----------------|--------------------------|
| Appearance   | Black                    | Odor           | Alcohol                  |
| Color        | No information available | Odor Threshold | No information available |

| Property                             | Values               | Remarks Method |
|--------------------------------------|----------------------|----------------|
| pH                                   | No data available    | None known     |
| Melting / freezing point             | No data available    | None known     |
| Boiling point / boiling range        | No data available    | None known     |
| Flash Point                          | No data available    | None known     |
| Evaporation Rate                     | No data available    | None known     |
| Flammability (solid, gas)            | No data available    | None known     |
| Flammability Limit in Air            |                      |                |
| Upper flammability limit             | No data available    |                |
| Lower flammability limit             | No data available    |                |
| Vapor pressure                       | No data available    | None known     |
| Vapor density                        | No data available    | None known     |
| Specific Gravity                     | No data available    | None known     |
| Water Solubility                     | Difficult solubility | None known     |
| Solubility in other solvents         | No data available    | None known     |
| Partition coefficient: n-octanol/wat | erNo data available  | None known     |
| Autoignition temperature             | No data available    | None known     |
| Decomposition temperature            | No data available    | None known     |
| Kinematic viscosity                  | No data available    | None known     |
| Dynamic viscosity                    | No data available    | None known     |
| Explosive properties                 | No data available    |                |
| Oxidizing properties                 | No data available    |                |

Solid containing liquid

## Other Information

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data available

**Particle Size Distribution** 



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# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

#### **Incompatible materials**

Strong acids. Strong oxidizing agents. Strong bases.

#### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness and dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Expected to be an irritant

based on components. Severely irritating to eyes. Causes serious eye damage. May cause

burns. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Expected to be an irritant

based on components. Irritating to skin. Prolonged contact may cause redness and

irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea.

#### **Component Information**

| Chemical Name                          | Oral LD50            | Dermal LD50          | Inhalation LC50                          |
|--|----------------------|----------------------|--|
| Third Party Formulation (TP # 1196598) | = 5200 mg/kg(Rat)    | = 13 g/kg ( Rabbit ) | = 54.6 mg/L(Rat)4 h<br>> 24 mg/L(Rat)1 h |
| Third Party Formulation (TP # 1196598) | = 1870 mg/kg ( Rat ) | -                    | > 13548 ppm (Rat)4 h                     |
| Third Party Formulation (TP # 1196598) | = 1219 mg/kg ( Rat ) | -                    | -  |

#### Information on toxicological effects

**Symptoms** Erythema (skin redness). May cause redness and tearing of the eyes. May cause

blindness. Burning. Inhalation of high vapor concentrations may cause symptoms like



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headache, dizziness, tiredness, nausea and vomiting.

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

**Sensitization** No information available.

**Mutagenic Effects**There is no data available for this product. Contains a known or suspected mutagen.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name                          | ACGIH | IARC    | NTP | OSHA |
|--|-------|---------|-----|------|
| Third Party Formulation (TP # 1196598) |       | Group 3 |     |      |

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Chronic Toxicity Contains a known or suspected mutagen. Possible risk of irreversible effects. Carcinogenic

potential is unknown.

Target Organ Effects Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and

eggs). Central Nervous System (CNS). Gastrointestinal tract (GI).

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2,458.00 mg/kg ATEmix (dermal) 23,718.00 mg/kg (ATE) ATEmix (inhalation-dust/mist) 99.60 mg/l



# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

| Chemical Name                             | Toxicity to Algae                                   | Toxicity to Fish   | Toxicity to Microorganisms  | Daphnia Magna (Water<br>Flea)                          |
|---|---|--|---|--|
| Third Party Formulation (TP<br># 1196598) |   | 96h LC50: = 20.8 g/L<br>(Pimephales promelas) 96h<br>LC50: 4600 - 10000 mg/L<br>(Leuciscus idus) |   | 48h EC50: = 23300 mg/L                                 |
| Third Party Formulation (TP<br># 1196598) |   | 96h LC50: = 4480 mg/L<br>(Pimephales promelas)   | EC50 = 17700 mg/L 5 min<br>EC50 = 45000 mg/L 5 h<br>EC50 = 8686 mg/L 15 min<br>EC50 = 980 mg/L 12 h | 48h EC50: 3339 - 3977<br>mg/L 48h EC50: = 3642<br>mg/L |
| Third Party Formulation (TP # 1196598)    | 72h EC50: = 36 mg/L<br>(Desmodesmus<br>subspicatus) | 96h LC50: = 5.6 mg/L<br>(Cyprinus carpio)  |   | 48h EC50: = 5.2 mg/L                                   |

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

| Chemical Name                          | Log Pow |
|--|---------|
| Third Party Formulation (TP # 1196598) | -0.437  |
| Third Party Formulation (TP # 1196598) | 0.34    |
| Third Party Formulation (TP # 1196598) | 2       |

#### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal methods 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 Dispose of contents/containers in accordance with local regulations.

#### California Hazardous Waste Codes 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                          | California Hazardous Waste |
|--|----------------------------|
| Third Party Formulation (TP # 1196598) | Toxic                      |
|  | Ignitable                  |



# 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US Federal Regulations**

# **SARA 313**

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

#### SARA 311/312 Hazard Categories

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

#### **CWA (Clean Water Act)**

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

#### **CERCLA**

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



## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

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| Chemical Name                          | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--|------------|---------------|--------------|--------------|----------|
| Third Party Formulation (TP # 1196598) | X          | X             | X            |              |          |
| Third Party Formulation (TP # 1196598) | Х          | Х             | Х            |              |          |

#### **International Regulations**

#### **Mexico**

National occupational exposure limits

| Component        |                         | Carcinogen Status | Exposure Limits                    |  |
|------------------|-------------------------|-------------------|------------------------------------|--|
| Third Party Forr | mulation (TP # 1196598) |                   | Mexico: TWA 200 ppm                |  |
|                  | ( 15 - 40 )             |                   | Mexico: TWA 500 mg/m <sup>3</sup>  |  |
|                  |                         |                   | Mexico: STEL 250 ppm               |  |
|                  |                         |                   | Mexico: STEL 625 mg/m <sup>3</sup> |  |

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

#### **WHMIS Hazard Class**

Not determined

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|-----|--------|-------------------|----|
| 10. | UITER  | <b>INFORMATIO</b> | N  |

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazards 3 \* Flammability 0 Physical Hazard 0 Personal Protection

Chronic Hazard Star Legend \* = Chronic Health Hazard

Prepared By Product Stewardship

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**Revision Date** 13-May-2015

Revision Note No information available

#### **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 Safety Data Sheet**

