



MATERIAL SAFETY DATA SHEET

1. Product And Company Identification

Product Name: CaviCide™
Manufacturer: METREX™ RESEARCH
1717 W. Collins Ave.
Orange, CA 92867
U.S.A.
Imported by: Sybron Canada LP
Brampton, Ontario L6W 4T5

Information Phone Number: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

MSDS Date Of Preparation/Revision: 7/14/2015
Product Use: Hard surface cleaner and disinfectant.
DIN: 02161656

2. Hazards Identification

Clear liquid with an alcohol odor.

EMERGENCY OVERVIEW

Flammable liquid and vapor. Causes moderate eye irritation. May cause mild skin irritation. Harmful if absorbed through the skin. Inhalation of concentrated vapors may cause irritation of the eyes, nose and throat and dizziness and drowsiness. Prolonged overexposure to ethylene glycol monobutyl ether may affect liver, kidneys, blood, lymphatic system or central nervous system.

3. Composition/Information On Ingredients

| Component | CAS No. | Amount |
|--|-----------|--------|
| Isopropanol | 67-63-0 | 17.2% |
| Ethylene Glycol Monobutyl Ether (2-Butoxyethanol) | 111-76-2 | 1-5% |
| Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride | 121-54-0 | 0.28% |
| Water | 7732-18-5 | 70-80% |

4. First Aid Measures

Inhalation: Move to fresh air if effects occur and seek medical attention if effects persist.

Skin Contact: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.



Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion: If swallowed, get medical advice by calling a Poison Control Center or hospital emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Extinguishing Media: Use water spray or fog, alcohol-resistant foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Unusual Fire Hazards: Flammable liquid and vapor. May form explosive mixtures in air at temperatures at or above the flashpoint. Flammable vapors may collect in confined areas. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flashback. Fire exposed containers may rupture explosively.

Hazardous Combustion Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

6: Accidental Release Measures

Eliminate all ignition sources. Ventilate area. Use explosion-proof equipment if large amounts are released. Stop leak if it is safe to do so and move containers from the spill area. Wear appropriate protective clothing and equipment (See Section 8). Collect material with an inert absorbent material and place in appropriate, labeled container for disposal. Refer to Section 13 for disposal advice.

7. Handling and Storage

Do not get in eyes or on clothing. Wear appropriate eye protection when handling (see Section 8). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Flammable liquid and vapor. Keep away from heat, sparks, open flames and all other sources of ignition. Do not smoke in storage or use areas. Keep containers closed when not in use. Do not reuse empty containers.

Store in a cool, well-ventilated area away from heat, oxidizers and all sources of ignition. Do not contaminate water, food or feed by storage. Empty containers retain product residues and may be hazardous. Do not flame cut, drill, weld, etc. on or near empty containers, even empty.



8. Exposure Controls / Personal Protection

Exposure Limits

| Chemical | Exposure Limit |
|--|---|
| Isopropanol | 200 ppm TWA, 400 ppm STEL (Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Labrador, Nova Scotia, Prince Edward Island, Saskatchewan, Ontario 400 ppm TWA, 500 ppm STEL skin Nunavut, Northwest Territories, Yukon, Quebec |
| Ethylene Glycol Monobutyl Ether (2-Butoxyethanol) | 20 ppm TWA (Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Labrador, Nova Scotia, Prince Edward Island, Ontario, Quebec 20 ppm TWA, 30 ppm STEL Saskatchewan 25 ppm TWA, 75 ppm STEL Nunavut, Northwest Territories 50 ppm TWA, 150 ppm STEL skin Yukon |
| Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride | None Established |

Ventilation: General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure.

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, a NIOSH/MSHA approved respirator with an organic vapor cartridges or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Gloves: Impervious gloves such as butyl rubber or nitrile are recommended for operations which may result in prolonged or repeated skin contact.

Eye Protection: Splash proof goggles, face shield, or safety glasses are recommended to prevent eye contact.

Other Protective Equipment/Clothing: Wear protective clothing if needed to avoid prolonged/repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

9. Physical and Chemical Properties

Appearance And Odor: Clear liquid with an alcohol odor.

| | | | |
|---|-----------------------------------|-------------------------|--------------------|
| Boiling Point: | Not Determined | Specific Gravity: | 0.972 |
| Solubility in Water: | Complete | pH: | 11.0 -12.49 |
| Vapor Pressure: | 43.3 mmHg @ 20°C (isopropanol) | Vapor Density: | 2.1 (isopropanol) |
| Percent Volatile: | >95% | Melting/Freezing Point: | Not Determined |
| Coefficient of Water/Oil Distribution: | Not Determined | | |
| Flash Point: | 28.3°C (83°F) | Flammable Limits: | LEL: 2% UEL: 12.7% |

10. Stability and Reactivity

Stability: Stable

Conditions To Avoid: Heat, sparks, flames and all other sources of ignition.

Incompatibility: Strong oxidizing agents, acids and strong reducing agents.

Hazardous Decomposition Products: Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: May cause irritation of the nose, throat and upper respiratory tract. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, weakness, fatigue, narcosis and possible unconsciousness. Not acutely toxic in rats.

Skin Contact: Prolonged or repeated exposure may cause mild irritation. No signs of toxicity or irritation were observed in a dermal toxicity study in rabbits. Non-irritating in a primary irritation study with rabbits. Negative in a skin sensitization study with guinea pigs.

Eye Contact: May cause irritation with tearing, redness and pain. Moderate irritant in an eye irritation study with rabbits. Effects reversed in 7 days.

Ingestion: Ingestion may cause gastrointestinal disturbances and central nervous system effects such as headache, dizziness, drowsiness and nausea. Not acutely toxic in rats.

Chronic Hazards: Prolonged overexposure to ethylene glycol monobutyl ether may affect liver, kidneys, blood, lymphatic system or central nervous system.

Medical Conditions Aggravated By Exposure: Due to its defatting properties, isopropyl alcohol may aggravate an existing skin condition.



Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values for CaviCide:

LD50 Oral Rat >5000 mg/kg

LD50 Dermal Rabbit >2000 mg/kg

LC50 inhalation LC50 rat >2.08 mg/L

12. Ecological Information

This product is not classified as aquatically toxic based on the GHS criteria for aquatic toxicity.

Toxicity:

Isopropanol: LC50 fathead minnows 11,130 mg/L/48 hr; LC50 brown shrimp 1400 mg/L/48 hr
Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride: LC50 pimephales promelas 1.6 mg/L/96 hr, LC50 lepomis macrochirus 1.4 mg/L/96 hr.

Persistence and degradability: Isopropanol and 2-butoxyethanol are readily biodegradable in screening tests. Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride is not readily biodegradable.

Bioaccumulative Potential: Isopropanol has an estimated BCF of 3 suggesting that the potential for bioaccumulation is low.

Mobility in Soil: Isopropanol is expected to have very high mobility in soil.

13. Disposal Considerations

Do not contaminate water, food, or feed by storage and disposal.

Solution Disposal: Dilute with water. Dispose of in ordinary sanitary sewer.

CONTAINER DISPOSAL: Triple rinse. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by provincial and local authorities, by burning. If burned, keep out of smoke.

14. Transport Information

U.S. DOT Hazard Classification

Proper Shipping Name: Not Regulated per alcohol exception (49CFR 173.150(e))

Technical Name: N/A

UN Number: N/A

Hazard Class/Packing Group: N/A

Labels Required: N/A

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.



Canada TDG

Proper Shipping Name: Not regulated per aqueous solution of alcohol exception (1.36)
Technical Name: N/A
UN Number: N/A
Hazard Class/Packing Group: N/A
Labels Required: N/A

IMDG Code Shipping Classification

Proper Shipping Name: Alcohols, n.o.s. (Isopropanol)
UN Number: UN1987
Hazard Class: 3
Packing Group: III
Labels Required: Flammable Liquid (Class 3)
Placards Required: Class 3
Not classified as a marine pollutant

ICAO Air Transport Classification

Proper Shipping Name: Alcohols, n.o.s. (Isopropanol)
ID Number: UN1987
Hazard Class: 3
Packing Group: III
Labels Required: Class 3

15. Regulatory Information

National Pollutant Release Inventory (NPRI): This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI:

| | |
|---------------------------------|-------|
| Isopropanol | 17.2% |
| Ethylene Glycol Monobutyl Ether | 1-5% |

CEPA Chemical Inventory: All of the components of this material are listed on the DSL or exempt.

WHMIS Classification: Class B-2, Class D-2-B

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

16. Other Information

NFPA Rating: Fire: 3 Health: 2 Instability: 0

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX™ RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.

1. Product and Company Identification

| | | |
|--------------------------------------|--|--------------------|
| Product identifier | Sani-Hands Instant Hand Sanitizing Wipes | SDS 0098-00 |
| Other means of identification | Not available | |
| Recommended use | Antiseptic | |
| Recommended restrictions | None known. | |
| Manufacturer | Professional Disposables International, Inc. Two Nice-Pak Park, Orangeburg, NY 10962-1376 or Distributed By: Professional Disposables International, LTD Vaughan, Ontario L4L 4K9 Canada Phone: (USA) 1-845-365-1700 (M-F 9am - 5pm) Phone: (CANADA) 1-800-263-7067 Emergency Phone: 1-800-999-6423 | |

2. Hazards Identification

| | | |
|------------------------------|-----------------------------------|-------------|
| Physical hazards | Flammable solids | Category 1 |
| Health hazards | Serious eye damage/eye irritation | Category 2A |
| Environmental hazards | Not determined | |
| OSHA defined hazards | None additional | |

Label elements



| | | | |
|--|--|--|--|
| Signal word | Danger | | |
| Hazard statement | Flammable solid. Causes serious eye irritation. | | |
| Precautionary statement | | | |
| Prevention | Keep away from fire or flame. Keep container closed. | | |
| 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish. | | |
| Storage | Store in a well-ventilated place. Keep container closed. | | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. | | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | |
| Supplemental information | Not applicable. | | |

3. Composition/Information on Ingredients

Mixture

| Chemical name | Common name and synonyms | CAS number | % |
|------------------|--------------------------|------------|---------|
| Alcohol | | 64-17-5 | 40 - 70 |
| Propylene glycol | | 57-55-6 | 1 - 5 |

Composition comments The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.
All concentrations are expressed as % weight.

4. First Aid Measures

Inhalation If inhaled for a prolonged period of time, remove person to fresh air and keep comfortable for breathing.

| | |
|---|---|
| Skin contact | Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician. |
| Eye contact | 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. |
| Ingestion | If swallowed, get medical help or contact a Poison Control Center immediately. |
| Most important symptoms/effects, acute and delayed | Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | If you feel unwell, seek medical advice (show the label where possible). Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep away from sources of ignition. No smoking. Keep out of reach of children. |

5. Fire Fighting Measures

| | |
|--|---|
| Suitable extinguishing media | Dry chemical. Carbon dioxide. Foam. |
| Unsuitable extinguishing media | Do not use water jet. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus. |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | Flammable solid. |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |

6. Accidental Release Measures

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering waterways. Contact emergency services and supplier for advice. Large Spills: Following product recovery, flush area with water. Wipe or mop up liquid, if any, and dispose properly. |
| Environmental precautions | Do not discharge into waterways. |

7. Handling and Storage

| | |
|--------------------------------------|---|
| Precautions for safe handling | WARNING Flammable, keep away from fire or flame. Do not use in contact with eyes. For external use only. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid prolonged exposure. Keep container closed. Use according to package label instructions. |
|--------------------------------------|---|

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight.
 Store in a closed container away from incompatible materials.
 Store in a well-ventilated place.
 Keep away from heat, open flames or other sources of ignition.
 Store away from incompatible materials (see Section 10 of the SDS).
 Keep this out of reach of children unless under adult supervision.

8. Exposure Controls/Personal Protection

Occupational exposure limits**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|-----------------------|------|------------------------------------|
| Alcohol (CAS 64-17-5) | PEL | 1900 mg/m ³ 1000 ppm |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-----------------------|------|----------|
| Alcohol (CAS 64-17-5) | STEL | 1000 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|-----------------------|------|------------------------------------|
| Alcohol (CAS 64-17-5) | TWA | 1900 mg/m ³ 1000 ppm |

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

| Components | Type | Value | Form |
|--------------------------------|------|----------------------|----------|
| Propylene glycol (CAS 57-55-6) | TWA | 10 mg/m ³ | Aerosol. |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

See above

Appropriate engineering controls

General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear gear as deemed necessary. Follow label directions.

Skin protection**Hand protection**

Not required.

Other

As required by employer code.
Follow label directions carefully.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not smoke.

9. Physical and Chemical Properties

Appearance Liquid saturated on wipe

Physical state Solid.

Form Liquid saturated on wipe

Color Colorless

Odor Alcohol

Odor threshold Not available.

pH 7.5

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Pour point Not available.

Specific gravity 0.883 (Liquid)

Partition coefficient (n-octanol/water) Not available.

| | |
|---|---|
| Flash point | 71.6 °F (22.0 °C) Tag Closed Cup (Liquid) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Flash point class | Combustible II |

10. Stability and Reactivity

| | |
|---|---|
| Reactivity | This product may react with strong oxidizing agents. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Do not mix with other chemicals. Avoid heat, sparks, open flames and other ignition sources. |
| Incompatible materials | Strong oxidizing agents. Oxidizers. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. |

11. Toxicological Information

| | |
|---|--|
| Routes of exposure | Inhalation. Ingestion. Skin contact. Eye contact. |
| Information on likely routes of exposure | |
| Ingestion | Expected to be a low ingestion hazard. |
| Inhalation | Prolonged inhalation may be harmful. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. |
| Skin contact | Non-irritating based on test data. |
| Eye contact | May be irritating to eyes. |
| Symptoms related to the physical, chemical and toxicological characteristics | Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. |
| Information on toxicological effects | |
| Acute toxicity | Narcotic effects. May cause respiratory irritation. |

Toxicity data in this section is based on individual component information and not based on the finished product.

| Components | Species | Test Results |
|-----------------------|---------------|---------------------|
| Alcohol (CAS 64-17-5) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Not available | |
| <i>Inhalation</i> | | |
| LC50 | Mouse | 39 mg/l, 4 Hours |
| | Rat | 31623 ppm, 4 Hours |
| | | 20000 ppm, 10 Hours |

| Components | Species | Test Results |
|---|--|--------------|
| <i>Oral</i> LD50 | Dog | 5500 mg/kg |
| | Guinea pig | 5600 mg/kg |
| | Mouse | 3450 mg/kg |
| | Rat | 7060 mg/kg |
| Propylene glycol (CAS 57-55-6) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rabbit | 20800 mg/kg |
| <i>Inhalation</i> LC50 | Not available | |
| <i>Oral</i> LD50 | Dog | 19000 mg/kg |
| | Guinea pig | 184000 mg/kg |
| | Mouse | 23900 mg/kg |
| | Rabbit | 14800 mg/kg |
| | Rat | 20000 mg/kg |
| Skin corrosion/irritation | Non-irritating based on test data. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | May cause irritation. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |
| Conjunctival oedema value | Not available. | |
| Recover days | Not available. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not classified. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | The finished product is not expected to have chronic health effects. | |
| Mutagenicity | The finished product is not expected to have chronic health effects. | |
| Carcinogenicity | The finished product is not expected to have chronic health effects. | |
| Reproductive toxicity | The finished product is not expected to have chronic health effects. | |
| Teratogenicity | The finished product is not expected to have chronic health effects. | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not classified. | |
| Chronic effects | The finished product is not expected to have chronic health effects. | |
| Further information | Not available. | |
| Name of Toxicologically Synergistic Products | Not available. | |

12. Ecological Information

| Ecotoxicity | See below | | Test Results |
|-----------------------|-----------|---------|------------------------|
| Components | | Species | |
| Alcohol (CAS 64-17-5) | | | |
| Crustacea | EC50 | Daphnia | 11744.5 mg/L, 48 Hours |

| Components | Species | Test Results |
|--------------------------------------|--|---|
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours |
| Propylene glycol (CAS 57-55-6) | | |
| Crustacea | EC50 | Daphnia 10000 mg/L, 48 Hours |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) > 10000 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) 710 mg/l, 96 hours |
| Persistence and degradability | No data is available on the degradability of this product. | |
| Bioaccumulative potential | No data available. | |
| Mobility in soil | No data available. | |
| Mobility in general | Not available. | |
| Other adverse effects | Not available. | |

13. Disposal Considerations

| | |
|--|--|
| Disposal instructions | Review federal, state/provincial, and local government requirements prior to disposal. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | See above |
| Hazardous waste code | Not assigned. |
| Waste from residues / unused products | Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

| | |
|-----------------------------|--|
| UN number | UN3175 |
| Proper shipping name | Solids containing flammable liquid, n.o.s. (Alcohol) |
| Hazard class | 4.1 |
| Packing group | II |
| Packaging exceptions | <1kg - limited quantity (par. 173.151) |

Note: Individually wrapped packet product is exempted from DOT regulation per Special Provision 47.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

| | |
|-----------------------------|--|
| UN number | UN3175 |
| Proper shipping name | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Alcohol) |
| Hazard class | 4.1 |
| Packing group | II |
| Packaging exceptions | <1Kg-Limited Quantity |

DOT; TDG



15. Regulatory Information

| | |
|-------------------------------------|--|
| Canadian federal regulations | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |
|-------------------------------------|--|

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Alcohol (CAS 64-17-5)

1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

| | |
|--------------------------------|-------|
| Alcohol (CAS 64-17-5) | 0.1 % |
| Propylene glycol (CAS 57-55-6) | 1 % |

WHMIS classification Exempt - Notified cosmetic under the Food & Drugs Act

US federal regulations This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

| | |
|--------------------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
| Propylene glycol (CAS 57-55-6) | Listed. |

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | |
|--------------------------|--|
| Hazard categories | Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No |
|--------------------------|--|

| | |
|---|----|
| SARA 302 Extremely hazardous substance | No |
|---|----|

| | |
|--|----|
| SARA 311/312 Hazardous chemical | No |
|--|----|

| | |
|---------------------------------|----------------|
| SARA 313 (TRI reporting) | Not regulated. |
|---------------------------------|----------------|

Other federal regulations

| | |
|---------------------------------------|----------------|
| Safe Drinking Water Act (SDWA) | Not regulated. |
|---------------------------------------|----------------|

| | |
|---|--|
| Food and Drug Administration (FDA) | Regulated as a monograph drug product. |
|---|--|

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

| | |
|-----------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
|-----------------------|---------|

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

| | |
|-----------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
|-----------------------|---------|

US - Louisiana Spill Reporting: Listed substance

| | |
|-----------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
|-----------------------|---------|

US - Minnesota Haz Subs: Listed substance

| | |
|--------------------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
| Propylene glycol (CAS 57-55-6) | Listed. |

US - New Jersey RTK - Substances: Listed substance

| | |
|--------------------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
| Propylene glycol (CAS 57-55-6) | Listed. |

US - Texas Effects Screening Levels: Listed substance

| | |
|--------------------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
| Propylene glycol (CAS 57-55-6) | Listed. |

US. Massachusetts RTK - Substance List

| | |
|-----------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
|-----------------------|---------|

US. Pennsylvania RTK - Hazardous Substances

| | |
|--------------------------------|---------|
| Alcohol (CAS 64-17-5) | Listed. |
| Propylene glycol (CAS 57-55-6) | Listed. |

US. Rhode Island RTK

Not regulated.

Inventory status

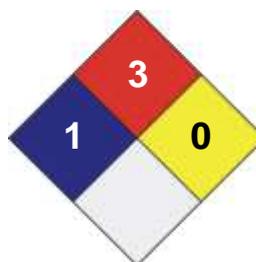
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|----------------------------|-----|
| HEALTH | / 1 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

01-April-2015

Effective date

01-September-2014

Expiry date

01-September-2017

Further information

For any questions surrounding this SDS, please contact the supplier/manufacturer listed on the first page of the document.

Revision 1.

Hazard categorization updated. Ingredient ranges used and revised in Section 3. Transportation information updated.

Based on bulk liquid # 4OP72301.

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.