



Bora-Care[®] Safety Data Sheet

Issue Date: 01-Nov-2003

Revision Date: 16-Nov-2022

Version 3

1. IDENTIFICATION

Product identifier

Product Name Bora-Care

Other means of identification

SDS # NIS-008

Registration Number(s) EPA Reg No 64405-1
UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use Termiticide, insecticide and fungicide concentrate.

Details of the supplier of the safety data sheet

Manufacturer Address

Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

Emergency telephone number

Company Phone Number Phone: (800)-264-0870
Fax: (865) 577-5825
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Clear, viscous gel

Physical state Liquid

Odor Characteristic

Classification

| | |
|--|------------|
| Acute toxicity - Oral | Category 4 |
| Reproductive toxicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Signal Word

Warning

Hazard statements

Harmful if swallowed
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure

**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
 Do not eat, drink or smoke when using this product
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|----------------------------------|------------|----------|
| Ethylene glycol | 107-21-1 | 40-60 |
| Disodium octaborate tetrahydrate | 12280-03-4 | 40 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

| | |
|-----------------------|---|
| General Advice | Immediate medical attention is required for large ingestions. |
| Eye Contact | Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists. |
| Skin Contact | Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use. |
| Inhalation | Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention. |
| Ingestion | Do not induce vomiting unless directed to do so by a medical professional. Get immediate medical attention for large ingestions or if symptoms develop or if you feel unwell. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | May cause eye and skin irritation. Inhalation of mists may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage. |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

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

Unsuitable Extinguishing Media A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material.

Specific Hazards Arising from the Chemical

Burning may produce carbon monoxide, carbon dioxide and ethylene oxide.

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. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8.

Environmental precautions

Environmental precautions Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Dike and collect liquid or absorb with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling Avoid contact with the eyes, skin and clothing. Avoid breathing mists or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible materials. Keep out of the reach of children. Protect from physical damage.

Packaging Materials Non refillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

Incompatible Materials Avoid strong oxidizing agents and aluminum.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|---|------------|
| Ethylene glycol 107-21-1 | STEL: 50 ppm vapor fraction STEL: 10 mg/m ³ inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction | (vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³ | - |
| Disodium octaborate tetrahydrate 12280-03-4 | STEL: 6 mg/m ³ inhalable particulate matter TWA: 2 mg/m ³ inhalable particulate matter | - | - |

Appropriate engineering controls

Engineering Controls

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Suitable washing facilities should be available in the work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety goggles or glasses where splashing is possible.

Skin and Body Protection

Wear impervious gloves such as butyl rubber, nitrile, neoprene, polyethylene, polyvinyl chloride or Viton. Follow instructions for Category C on an EPA resistance category selection chart for more options. Wear long sleeve shirts, long pants, socks and shoes when using this product.

Respiratory Protection

In operations where exposure levels are exceeded, a NIOSH approved respirator with methylamine or organic vapor cartridges with approved pesticide prefilter or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|---------------------------------|---|-----------------|
| Physical state | Liquid | Odor | Characteristic |
| Appearance | Clear, viscous gel | Odor Threshold | Not established |
| Color | Clear | | |
| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> | |
| pH | 6.9-7.1 (50% solution in water) | | |
| Melting point / freezing point | Not determined | | |
| Boiling point / boiling range | >100 °C / >212 °F | | |
| Flash point | >104 °C / >220 °F | (Dipropylene glycol methyl ether acetate) | |
| Evaporation Rate | Not determined | | |
| Flammability (Solid, Gas) | Liquid-Not applicable | | |
| Flammability Limit in Air | | | |
| Upper flammability or explosive limits | Not determined | | |
| Lower flammability or explosive limits | Not determined | | |
| Vapor Pressure | Negligible | | |
| Vapor Density | Not determined | | |
| Relative Density | 1.38 | | |
| Water Solubility | Soluble in water | | |

| | |
|-------------------------------------|-----------------------|
| Solubility in other solvents | Not determined |
| Partition Coefficient | Not determined |
| Autoignition temperature | None |
| Decomposition temperature | Not determined |
| Kinematic viscosity | 8000-11000 centipoise |
| Dynamic Viscosity | Not determined |
| Explosive Properties | Not determined |
| Oxidizing Properties | Not determined |

Other information

VOC Content 36% by weight as water

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Incompatible Materials.

Incompatible materials

Avoid strong oxidizing agents and aluminum.

Hazardous decomposition products

When heated to decomposition, it emits carbon monoxide, carbon dioxide and ethylene oxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Harmful if swallowed.

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|-----------------------|------------------------|
| Ethylene glycol 107-21-1 | = 4700 mg/kg (Rat) | = 10600 mg/kg (Rat) | - |
| Disodium octaborate tetrahydrate 12280-03-4 | = 2500 mg/kg (Rat) | - | - |
| Polyethylene glycol 25322-68-3 | = 22 g/kg (Rat) | > 20 g/kg (Rabbit) | - |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

| | |
|---------------------------------|--|
| Carcinogenicity | Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| Reproductive toxicity | Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth. The above mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility. |
| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Numerical measures of toxicity

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

| | |
|--------------------------------------|-----------------|
| Oral LD50 | 896.60 mg/kg |
| Dermal LD50 | 19,760.70 mg/kg |
| ATEmix (inhalation-dust/mist) | 3.16 mg/L |

| |
|-----------------------------------|
| 12. ECOLOGICAL INFORMATION |
|-----------------------------------|

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|-----------------------------|--|---|--|
| Ethylene glycol 107-21-1 | 6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 41000: 96 h Oncorhynchus mykiss mg/L LC50 | 46300: 48 h Daphnia magna mg/L EC50 |

Persistence/Degradability

Readily biodegradable.

Bioaccumulation

There is no data for this product.

Mobility

| Chemical name | Partition coefficient |
|-----------------------------|------------------------------|
| Ethylene glycol 107-21-1 | -1.93 |

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note This product is NOT REGULATED for transportation unless the package contains a reportable quantity. If a shipment of a reportable quantity (10,000 lbs/ 870 gal in a single package) is involved, the following DOT information applies:

DOT

- UN/ID No** UN3082
- Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)
- Hazard class** 9
- Packing Group** III
- Reportable Quantity (RQ)** 10,000 lbs/ 870 gal

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------------------|------|-----------------------|----------|---------------|------|-------|------|-------|------|
| Ethylene glycol | X | ACTIVE | X | X | X | X | X | X | X |
| Disodium octaborate tetrahydrate | X | | | | | X | | X | |
| Polyethylene glycol | X | ACTIVE | X | X | X | X | X | X | X |

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|-----------------------------|--------------------------|----------------|--|
| Ethylene glycol 107-21-1 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

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 |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|----------------------------|---------------------------|
| Ethylene glycol - 107-21-1 | Developmental |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Ethylene glycol 107-21-1 | X | X | X |
| Disodium octaborate tetrahydrate 12280-03-4 | X | | |

EPA Pesticide Registration Number EPA Reg No 64405-1

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Please refer to EPA label for additional information

Difference between SDS and EPA pesticide label

Please refer to EPA label for additional information

16. OTHER INFORMATION

| | | | | |
|--------------------|----------------------------|--------------------------|------------------------------|--|
| <u>NFPA</u> | Health Hazards 2 | Flammability 1 | Instability 0 | Special Hazards Not determined |
| <u>HMIS</u> | Health Hazards 2 | Flammability 1 | Physical hazards 0 | Personal Protection Not determined |

Issue Date: 01-Nov-2003
 Revision Date: 19-Oct-2022
 Revision Note: Regulatory review

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.



100 Nisus Drive • Rockford, TN 37853 USA • (800) 264-0870

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Mold-Care[®] Safety Data Sheet

Issue Date: 03-May-2022

Revision Date: 16-Nov-2022

Version 1

1. IDENTIFICATION

Product identifier

Product Name Mold-Care

Other means of identification

SDS # NIS-053

Registration Number(s) EPA Reg. No. 6836-212-64405
UN/ID No UN2920

Recommended use of the chemical and restrictions on use

Recommended Use Cleaning/washing agents and disinfectants.

Details of the supplier of the safety data sheet

Manufacturer Address

Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

Emergency telephone number

Company Phone Number Phone: (800)-264-0870
Fax: (865) 577-5825
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Light yellow liquid

Physical state Liquid

Odor Alcohol-like

Classification

| | |
|-----------------------------------|---------------------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Flammable liquids | Category 3 |

Signal Word

Danger

Hazard statements

Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
Flammable liquid and vapor

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Do not breathe dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Use explosion-proof equipment

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
 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
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Call a poison center or doctor/physician if you feel unwell
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 Do NOT induce vomiting
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|----------------------------------|-----------|----------|
| Didecyldimethylammonium chloride | 7173-51-5 | 80 |
| Isopropanol | 67-63-0 | 10-15 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

| | |
|-----------------------|---|
| General Advice | Provide this SDS to medical personnel for treatment. |
| Eye Contact | 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 Contact | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. |
| Ingestion | Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. |
|-----------------|--|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Dry chemical. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media High volume water jet.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor.

Hazardous combustion products Smoke, fumes or vapors, and oxides of carbon.

Explosion Data

Sensitivity to Static Discharge Take precautionary measures against static discharge.

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 Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating.

Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for Clean-Up | Absorb with inert material and then place in suitable container for chemical waste. For waste disposal, see section 13 of the SDS. |

7. HANDLING AND STORAGE**Precautions for safe handling**

| | |
|--------------------------------|---|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Use explosion proof equipment. |
|--------------------------------|---|

Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|---|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. |
| Incompatible Materials | Strong acids. Strong bases. Oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------|-------------------------------|---|---|
| Isopropanol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³ | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ |

Appropriate engineering controls

| | |
|-----------------------------|---|
| Engineering Controls | Apply technical measures to comply with the occupational exposure limits. |
|-----------------------------|---|

Individual protection measures, such as personal protective equipment

| | |
|---------------------------------|--|
| Eye/Face Protection | Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations. |
| Skin and Body Protection | Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection. |
| Respiratory Protection | In the case of vapor formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapor filter (EN 141). Refer to 29 CFR 1910.134 for respiratory protection requirements. |

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|---------------------|-----------------------|----------------|
| Physical state | Liquid | Odor | Alcohol-like |
| Appearance | Light yellow liquid | Odor Threshold | Not determined |
| Color | Light yellow | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|---|-------------------------|
| pH | 6.5-9 (77 °F / 25 °C) Concentration: 100 g/l | |
| Melting point / freezing point | 10 °C / -12.2 °F | |
| Boiling point / boiling range | Not determined | |
| Flash point | 41 °C / 106 °F | |
| Evaporation Rate | Not determined | |
| Flammability (Solid, Gas) | Liquid - Not Applicable | |
| Flammability Limit in Air | | |
| Upper flammability or explosive limits | Not determined | |
| Lower flammability or explosive limits | Not determined | |
| Vapor Pressure | Not determined | |
| Vapor Density | Not determined | |
| Relative Density | 0.89 g/cm ³ (77 °F / 25 °C) | |
| Water Solubility | Not determined | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Autoignition temperature | Not determined | |
| Decomposition temperature | Not determined | |
| Kinematic viscosity | Not determined | |
| Dynamic Viscosity | < 100 mPa.s (77 °F / 25 °C) | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks.

Incompatible materials

Strong acids. Strong bases. Oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|-------------------------------|
| Eye Contact | Avoid contact with eyes. |
| Skin Contact | Harmful in contact with skin. |
| Inhalation | Do not inhale. |
| Ingestion | Harmful if swallowed. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|----------------------|-------------------------|---------------------------------------|
| Didecyldimethylammonium chloride 7173-51-5 | = 84 mg/kg (Rat) | > 1000 mg/kg (Rat) | - |
| Isopropanol 67-63-0 | = 1870 mg/kg (Rat) | = 4059 mg/kg (Rabbit) | = 72600 mg/m ³ (Rat) 4 h |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | Please see section 4 of this SDS for symptoms. |
|-----------------|--|

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

| | |
|--|--|
| Skin corrosion/irritation | Causes severe skin burns. |
| Serious eye damage/eye irritation | Causes severe eye damage. |
| Carcinogenicity | Group 3 IARC components are "not classifiable as human carcinogens". |

| Chemical name | ACGIH | IARC | NTP | OSHA |
|------------------------|-------|---------|-----|------|
| Isopropanol 67-63-0 | | Group 3 | | X |

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity

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

| | |
|--------------------------------------|----------------|
| Oral LD50 | 539.10 mg/kg |
| Dermal LD50 | 1,082.70 mg/kg |
| ATEmix (inhalation-dust/mist) | 518.60 mg/L |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life.

Component Information

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|--|---|--|
| Didecyldimethylammonium chloride 7173-51-5 | | 0.97: 96 h Danio rerio mg/L LC50 semi-static | |
| Isopropanol 67-63-0 | 1000: 72 h Desmodesmus subspicatus mg/L EC50 1000: 96 h Desmodesmus subspicatus mg/L EC50 | 11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50 | 13299: 48 h Daphnia magna mg/L EC50 |

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

| Chemical name | Partition coefficient |
|------------------------|-----------------------|
| Isopropanol 67-63-0 | 0.05 |

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

| | |
|-------------------------------|---|
| Disposal of Wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated Packaging | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

California Hazardous Waste Status

| Chemical name | California Hazardous Waste Status |
|------------------------|-----------------------------------|
| Isopropanol 67-63-0 | Toxic Ignitable |

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

| | |
|--------------------------------|--|
| UN/ID No | UN2920 |
| Proper Shipping Name | Corrosive liquids, flammable, n.o.s. (Didecyldimethylammonium chloride, Isopropanol) |
| Hazard class | 8 |
| Subsidiary Hazard Class | 3 |
| Packing Group | II |

IATA

| | |
|-----------------------------------|--|
| UN number | UN2920 |
| Proper Shipping Name | Corrosive liquids, flammable, n.o.s. (Didecyldimethylammonium chloride, Isopropanol) |
| Transport hazard class(es) | 8 |
| Subsidiary hazard class | 3 |
| Packing Group | II |

IMDG

| | |
|-----------------------------------|--|
| UN number | UN2920 |
| Proper Shipping Name | Corrosive liquids, flammable, n.o.s. (Didecyldimethylammonium chloride, Isopropanol) |
| Transport hazard class(es) | 8 |
| Subsidiary Hazard Class | 3 |
| Packing Group | II |
| Marine Pollutant | This material may meet the definition of a marine pollutant |

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

International Inventories

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Didecyldimethylammonium chloride | X | ACTIVE | X | X | X | X | X | X | X |
| Isopropanol | X | ACTIVE | X | X | X | X | X | X | X |

Legend:

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**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).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|-----------------------|---------|----------|-------------------------------|
| Isopropanol - 67-63-0 | 67-63-0 | 10-15 | 1.0 |

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)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|------------------------|------------|---------------|--------------|
| Isopropanol 67-63-0 | X | X | X |

EPA Pesticide Registration Number EPA Reg. No. 6836-212-64405

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Please refer to EPA label for additional information

Difference between SDS and EPA pesticide label

Please refer to EPA label for additional information

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

NFPA**Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical hazards

Not determined

Personal Protection

Not determined

Issue Date:

03-May-2022

Revision Date:

16-Nov-2022

Revision Note:

New format

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.



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