



VAPCO PRODUCTS, INC.

Safety Data Sheet Ice Machine Sanitizer

SECTION 1: Identification

1.1 GHS Product identifier

| | |
|----------------|-----------------------|
| Product name | Ice Machine Sanitizer |
| Product number | IMS-16OZ |
| Brand | Vapco |

1.2 Other means of identification

EPA Reg. No. 47371-147-6381
EPA Est. No. 44446-TX-1

1.3 Recommended use of the chemical and restrictions on use

One-Step Disinfectant

1.4 Supplier's details

| | |
|-----------|---|
| Name | Vapco Products, Inc. |
| Address | 401 Marshall Road Valley Park, Missouri 63088 United States |
| Telephone | (636) 923-2121 |
| Fax | (636) 923-3002 |
| email | info@VapcoProducts.com |

1.5 Emergency phone number

(800) 255-3924

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 2

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2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H315

Causes skin irritation

H318

Causes serious eye damage

Precautionary statement(s)

P264

Wash hands thoroughly after handling.

P280

Wear eye protection/face protection/protective gloves.

P302+P352

IF ON SKIN: Wash with plenty of water.

P305+P351+P338

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

P310

Immediately call a POISON CENTER/doctor.

P321

Specific treatment (see First Aid on this label).

P332+P313

If skin irritation occurs: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

Statement regarding ingredients of unknown toxicity

This product contains the following percentage of chemicals of unknown toxicity: 0%

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Didecyl dimethyl ammonium chloride

Concentration

1 - 5 % (weight)

CAS no.

7173-51-5

2. n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride

Concentration

1 - 5 % (weight)

CAS no.

68424-85-1

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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|-------------------------|--|
| If inhaled | First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention. |
| In case of skin contact | Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists. |
| In case of eye contact | Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists. |
| If swallowed | Rinse mouth. Do NOT induce vomiting. Obtain medical attention. |

4.2 Most important symptoms/effects, acute and delayed

Acute Health Hazards: Causes skin irritation including redness, burning and drying/cracking. Causes serious damage to eyes. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Health Hazards: None known.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, dry chemical, or sand. Use appropriate media for surrounding fire.

5.2 Specific hazards arising from the chemical

Heating or fire can release toxic gas.

5.3 Special protective actions for fire-fighters

Precautionary Fire Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use dry chemical, foam, or carbon dioxide (CO₂). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

Hazardous Combustion Products: Oxides of carbon.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

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Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedure: Eliminate ignition sources first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

For Containment: Ventilate the area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Waste Disposal: Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld. Product should be fully characterized prior to disposal (40 CFR 261). **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Container Disposal:** Non-refillable container. Do not reuse or refill the container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and re-close the container. Agitate vigorously and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source. Do not store near food, drink, or animal food.

Additional Hazards When Processed: Do not pressurize, cut, or weld containers. Do not pierce or burn, even after use.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Other Precautions: Keep out of reach of children. Follow label instructions. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

7.2 Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids and bases, oxidizing agents. This pesticide is a cationic germicide. Do not mix with soap or anionic materials. Do not use or store near heat or flame.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Didecyl dimethyl ammonium chloride (CAS: 7173-51-5)

PEL-ST: Not established (US/OSHA)

TLV®: Not established (ACGIH)

2. n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride (CAS: 68424-85-1)

PEL-ST: Not established (US/OSHA)

TLV®: Not established (ACGIH)

8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

Skin protection

Wear protective gloves and clothing.

Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.

Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state
Appearance
Color

Liquid
Clear liquid
Colorless

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| | |
|--|--|
| Odor | Soapy |
| Odor threshold | N/D |
| Melting point/freezing point | N/D |
| Boiling point or initial boiling point and boiling range | > 212°F (100°C) |
| Flammability | Not considered a flammable liquid by OSHA (29 CFR 1910.1200) |
| Lower and upper explosion limit/flammability limit | N/D |
| Flash point | > 200°F (93.34°C) |
| Auto-ignition temperature | N/D |
| Decomposition temperature | N/D |
| pH | 6-8 |
| Kinematic viscosity | N/D |
| Solubility | Completely soluble in water |
| Partition coefficient n-octanol/water (log value) | N/D |
| Vapor pressure | 760 mmHg |
| Evaporation rate | Slow |
| Density and/or relative density | 1.01 |
| Relative vapor density | 1 (Air=1) |
| Particle characteristics | N/D |

Supplemental information regarding physical hazard classes

N/D

Further safety characteristics (supplemental)

N/D

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong acids and bases, strong oxidizing agents. This pesticide is a cationic germicide. Do not mix with soap or anionic materials. Do not use or store near heat or flame.

10.6 Hazardous decomposition products

No decomposition if used and stored as directed.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Didecyl dimethyl ammonium chloride (7173-51-5):

LD50 Oral - Rat - 238 mg/kg

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LD50 Dermal - Rabbit - 3342 mg/kg

n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride (68424-85-1):

LD50 Oral - Rat - 344 mg/kg

LD50 Dermal - Rabbit - 342 mg/kg

Skin corrosion/irritation

Causes irritation.

Serious eye damage/irritation

Causes severe irritation, burning, redness, tearing, pain.

Respiratory or skin sensitization

Causes irritation.

Germ cell mutagenicity

None known.

Carcinogenicity

None known.

Reproductive toxicity

None known.

Specific target organ toxicity (STOT) - single exposure

Causes skin irritation including redness, burning and drying/cracking. Causes serious damage to eyes. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Specific target organ toxicity (STOT) - repeated exposure

None known.

Aspiration hazard

May cause slight respiratory tract irritation.

SECTION 12: Ecological information

Toxicity

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Didecyl dimethyl ammonium chloride (7173-51-5):

LC50 - Pimephales promelas - 0.19 mg/L - 96 h

EC50 - Daphnia magna - 0.062 mg/L - 48 h

ErC50 - Pseudokirchneriella subcapitata - 0.026 mg/L - 96 h

n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride (68424-85-1)

LC50 - Lepomis macrochirus - 0.515 mg/L - 96 h

EC50 - Daphnia magna - 0.016 mg/L - 48 h

ErC50 - Pseudokirchneriella - 0.049 mg/L - 72 h

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Persistence and degradability

This product is biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use. Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Packaging disposal

Non-refillable container. Do not reuse or refill the container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and re-close the container. Agitate vigorously and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. Then offer for recycling if available or puncture the container and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are an acute hazardous waste and must be disposed of in accordance with local, state, and federal regulations.

Waste treatment

RCRA Status: Product should be fully characterized prior to disposal (40 CFR 261).

Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container. Product should be fully characterized prior to disposal.

SECTION 14: Transport information

DOT (US)

UN Number: NA1760

Class: 8

Packing Group: I

Proper Shipping Name: Compounds, cleaning liquid

Reportable quantity (RQ): N/A

Marine pollutant: N/A

Poison inhalation hazard: N/A

IMDG

UN Number: NA1760

Class: 8

Packing Group: I

EMS Number: N/A

Proper Shipping Name: Compounds, cleaning liquid

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IATA
UN Number: NA1760
Class: 8
Packing Group: I
Proper Shipping Name: Compounds, cleaning liquid

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components
This product contains no known chemicals regulated by California Proposition 65.

SARA 311/312 Hazards
Skin corrosion or irritation. Serious eye damage or eye irritation.

SARA 313 Components
This product 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.

Toxic Substances Control Act (TSCA) Inventory
All chemicals are listed or exempt.

15.2 Chemical Safety Assessment

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: DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Harmful if swallowed. Remove contaminated clothing and wash clothing before reuse. EPA Reg. No. 47371-147

HMIS Rating

| Ice Machine Sanitizer | |
|-----------------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |
| PERSONAL PROTECTION | B |

NFPA Rating



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SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

16.1 Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

16.2 Preparation information

Prepared by: Jessica Wilson

Date prepared: 1-12-2026