

MATERIAL SAFETY DATA SHEET

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Revised 9/01/00
Replaces 7/27/00
Printed 3/02/01

ICE MACHINE SANITIZER M.E.W.

MSDS ID: MI0897

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ICE MACHINE SANITIZER M.E.W.
MSDS ID : MI0897
CHEMICAL NAME SYNONYMS : N.A.
CAS NUMBER : MIXTURE
CHEMICAL FAMILY : Sanitizer/Disinfectant
FORMULA : See Section 2.

DISTRIBUTED BY:
Hydrite Chemical Co.
300 N. Patrick Blvd.
Brookfield, WI 53008-0948
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency # - (414) 277-1311
CHEMTREC Emergency # - (800) 424-9300

MANUFACTURED BY: HYDRITE CHEMICAL CO.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	OSHA HAZARD	% BY WT.
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chloride	68424-85-1	YES	3.0 %
Octyl decyl dimethyl ammonium chloride	32426-11-2	YES	2.25%
Didecyl dimethyl ammonium chloride	7173-51-5	YES	1.350 %
Diocetyl dimethyl ammonium chloride	5538-94-3	YES	0.900 %
Ethyl Alcohol	64-17-5	YES	0 - 2 %

3. HAZARDS IDENTIFICATION

PHYSICAL STATE: Liquid.
COLOR : Water white.
ODOR : Sweet odor.

EMERGENCY OVERVIEW: DANGER! Causes eye burns. May cause burns to the skin. May cause respiratory irritation. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE:
Eyes. Skin. Inhalation. Ingestion.

TARGET ORGANS:
Eyes. Skin. Respiratory System. Central Nervous System.

EYE CONTACT:
Causes severe irritation.
May cause: tearing. blinking. stinging. redness. burns. permanent eye

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3. HAZARDS IDENTIFICATION (Cont.)

damage. blindness.

SKIN CONTACT:

May cause severe irritation.

Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis. Contact may cause: sensitization. allergic skin reaction in a small proportion of individuals.

SKIN ABSORPTION:

No absorption hazard expected under normal use.

INHALATION:

Inhalation overexposure may lead to central nervous system depression, producing effects such as dizziness, headache, confusion, incoordination, nausea, weakness, and loss of consciousness. Vapors or mists may irritate: nose. throat. mucous membranes.

INGESTION:

May cause severe irritation.

May cause: abdominal discomfort. nausea. vomiting. gastrointestinal irritation. Ingestion can cause swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, and convulsions.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO PRODUCT:

None known.

OTHER:

None known.

CANCER INFORMATION:

This product does not contain greater than 0.1% of the known or potential carcinogens listed in NTP, IARC, or OSHA.

POTENTIAL ENVIRONMENTAL EFFECTS:

See Section 12.

4. FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.
Remove contact lenses if possible.

SKIN CONTACT:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned.

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4. FIRST AID MEASURES (Cont.)

INHALATION:

Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

NOTE TO PHYSICIANS: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASH POINT: N.A.

FLAMMABILITY LIMITS: LEL: N.A.
AUTOIGNITION TEMPERATURE: No Data

UEL: N.A.

EXTINGUISHING MEDIA:

For fires in area use appropriate media. For example: Water spray. Dry chemical. Carbon dioxide. Alcohol foam.

FIRE FIGHTING METHODS:

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. Run-off from fire control may cause pollution.

FIRE AND EXPLOSION HAZARDS:

Material will burn in fire, releasing toxic vapors. Solvent vapors can travel to an ignition source and flash back.

HAZARDOUS COMBUSTION PRODUCTS:

Toxic vapors. Carbon oxides. Nitrogen oxides. Hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES:

Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct

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6. ACCIDENTAL RELEASE MEASURES (Cont.)

discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

STORAGE:

Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.

Store below 140 Deg. F.

HANDLING:

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

General room ventilation is required.

Avoid creating dust or mist. Use explosion-proof ventilation equipment. To keep exposure below established limits, local exhaust may be necessary. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

RESPIRATORY PROTECTION:

Respiratory protection may be required to avoid overexposure when handling this product.

If exposure limits are exceeded, wear: NIOSH-Approved organic respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

EYE/FACE PROTECTION:

Wear chemical safety goggles while handling this product.

Do not wear contact lenses. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

SKIN PROTECTION:

Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont.)

Protective gloves: Chemical-resistant. Neoprene. Rubber.

OTHER PROTECTIVE EQUIPMENT:

Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes.
Rubber boots. Protective clothing.

GENERAL HYGIENE CONSIDERATIONS:

Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

EXPOSURE GUIDELINES:

COMPONENT	-----OSHA-----		-----ACGIH-----	
	PEL	STEL/C	TWA	STEL/C
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chloride	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Octyl decyl dimethyl ammonium chloride	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Didecyl dimethyl ammonium chloride	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Diocetyl dimethyl ammonium chloride	Not Estab.	Not Estab.	Not Estab.	Not Estab.
Ethyl Alcohol	1000 ppm	Not Estab.	1000 ppm	Not Estab.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (DEG. F) : N.D.	SPECIFIC GRAVITY: 0.988
FREEZING POINT (DEG. F) : N.D.	% VOLATILE (WT%) : ~ 93
MELTING POINT (DEG. F) : N.D.	EVAPORATION RATE: N.D.
VAPOR PRESSURE (MM HG) : N.D.	(nBuAc=1)
VAPOR DENSITY (AIR=1) : N.D.	VOC (WT%) : N.D.
SOLUBILITY IN WATER : Complete	VOC (LBS/GAL) : N.D.
pH : 7.1	

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

CONDITIONS TO AVOID:

Avoid elevated temperatures. Avoid temperatures above 100 Deg. F. Avoid mixing with other cleaning products. Mix only with water.

INCOMPATIBILITY:

Strong oxidizing agents. Strong reducing agents. Aluminum. Inorganic acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic vapors. Carbon oxides. Nitrogen oxides. Hydrogen chloride.

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10. STABILITY AND REACTIVITY (Cont.)

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

LD50 ORAL : No Data
LD50 SKIN : No Data
LC50 INHALATION: No Data

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Extensive data, call for information.

CHEMICAL FATE INFORMATION:

Extensive data, call for information.

13. DISPOSAL CONSIDERATIONS

HAZARDOUS WASTE NUMBER: N.A.

DISPOSAL METHOD:

Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations.

Incinerate in a furnace where permitted under Federal, State, and local regulations. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORT INFORMATION (Not meant to be all inclusive)

DOT (Department of Transportation):

Proper Shipping Name : Not regulated by the DOT.
Identification Number : N.A.
Packing Group : N.A.

15. REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS:

This product or all components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

SARA TITLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARD : YES
DELAYED (CHRONIC) HEALTH HAZARD : NO
FIRE HAZARD : NO
SUDDEN RELEASE OF PRESSURE HAZARD: NO
REACTIVE HAZARD : NO

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15. REGULATORY INFORMATION (Cont.)

SARA SECTION 302/304/313/HAP:

Table with 6 columns: COMPONENT, RQ (LBS) (*1), RQ (LBS) (*2), TPQ (LBS) (*3), SEC 313 (*4), HAP (*5). Rows include Alkyl (50%C14,40%C12,10%C16) dimethyl benzyl ammonium chloride, Octyl decyl dimethyl ammonium chloride, Didecyl dimethyl ammonium chloride, Dioctyl dimethyl ammonium chloride, and Ethyl Alcohol.

FOOTNOTES

- *1 = CERCLA Reportable Quantity
*2 = SARA Reportable Quantity
*3 = SARA EHS Threshold Planning Quantity
*4 = SARA 313 Toxic Chemical/Category
*5 = U.S. EPA Hazardous Air Pollutant

STATE REGULATIONS:

CALIFORNIA--The following components are listed under Prop 65: Benzyl Chloride (cas# 100-44-7) = trace

WISCONSIN--The following components are listed as a Wisconsin HAP: None.

16. OTHER INFORMATION

HMS RATING SYSTEM

Health : 2
Flammability: 0
Reactivity : 0
* = Chronic Health Hazard

NFPA RATING SYSTEM

Health : 2
Flammability : 0
Reactivity : 0
Special Hazard: None

MSDS ABBREVIATIONS: N.A. = Not Applicable
N.D. = Not Determined
HAP = Hazardous Air Pollutant
VOC = Volatile Organic Compound
C = Ceiling Limit
N.E./Not Estab. = Not Established

MSDS PREPARED BY: KJV

REASON FOR REVISION: Changes made in section 2.

** ** * * * * *
The data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct.

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16. OTHER INFORMATION (Cont.)

However, since conditions of use are outside our control it should not be taken as a warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

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