

**MATERIAL SAFETY DATA SHEET (MSDS)****BACTERICIDE**

HAZARD RATING: H-2, F-3, R-0

**SECTION I****EMERGENCY TELEPHONE #**

TRADE NAME

(If none, put chemical)

BACTERICIDE

1-800-424-9300

CHEMICAL NAME

AND SYNONYMS

NA

MFG'S NAME

AND TELEPHONE #

FRIGID FLUID CO.

1-708-836-1215

ADDRESS

11631 W. GRAND AVE.

CHICAGO, IL 60164

**SECTION II - HAZARDOUS INGREDIENTS**

%

TLV

STEL

PEL

UNITS

Tetrasodium Ethylenediaminetetraacetic acid - (CAS #)

Ethylene glycol - (CAS #) - Ceiling

Ethylene dichloride - (CAS #107-06-2)

&lt;10

10

100

50

PPM

Formaldehyde - (CAS #50-00-0):

&lt;5

0.3

2

0.75

PPM

Methyl alcohol - (CAS #67-56-1) -SKIN:

20-30

200

250

200

PPM

Sodium hydrosulfite - (CAS #)

Diethanolamine - (CAS #)

Triethanolamine - (CAS #102-71-6)

&lt;10

5

NE

MG/M3

Glutaraldehyde - (CAS #) - Ceiling

NON-Haz ingredients\*:

Unidentified ingredients are not considered hazardous under the federal hazard communication standard (29 CFR 1910.1200)

**SECTION III - PHYSICAL DATA**

Boiling Point (\*F):

148

Specific Gravity (H2O=1):

0.998

Vapor Pressure (MM Hg):

NE

% Volative by volume:

&gt;90

Vapor Density (AIR=1)

NE

pH

NE

Solubility in Water

Complete

Evaporation Rate (EITHER=1)

&lt;1

Appearance and Odor

Clear liquid, mild odor

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (method used):

101°F (P-M)

Flammable Limits:

LEL

UEL

6%

73%

**Extinguishing Media:** Carbon dioxide, dry chemical, or foam.

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and complete protective clothing. Use water spray fog to cool fire - exposed containers.

**Unusual Fire and Explosion Hazards:** Explosion hazard: low to moderate  
Vapors can flow to ignition source and flashback

=====

NA - NOT APPLICABLE	NE - NOT ESTABLISHED	UN - UNAVAILABLE		
F HAZARD RATING (NFPA):	H - HEALTH	F - FIRE	R - REACTIVITY	
4= EXTREME	3= SERIOUS	2= MODERATE	1= SLIGHT	0= MINIMUM

**SECTION V - HEALTH HAZARD INFORMATION**

Symptoms/Effects of overexposure for formaldehyde containing fluids:

**INGESTION:** Poisonous if swallowed. Causes severe irritation and inflammation of the mouth, throat and stomach followed by severe stomach pains, vomiting, diarrhea, possible loss of consciousness. Blindness or death may occur.

**INHALATION:** Highly irritating to upper respiratory tract, possibly causing inflammation of the lining of the nose, throat and lungs. Extremely irritating vapors can cause bronchopneumonia and edema. Sensitization is also possible.

**SKIN:** Contact causes drying, cracking, scaling with hardening or tanning after repeated exposure. May cause contact allergic dermatitis.

**EYES:** High vapor concentrations or contact causes tearing and severe irritation. Contact may cause severe irritation or irreversible damage.

Formaldehyde is considered a potential carcinogen by OSHA, NTP, and IARC. Chronic overexposure may cause liver and kidney damage.

First Aid:

**EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.

**SKIN:** Remove contaminated clothing and wash skin with plenty of water. If irritation persists, seek medical attention. Wash clothing before reuse.

**INHALATION:** Move victim to fresh air and restore breathing if necessary. Stay with victim until arrival of EMP.

**INGESTION:** Contact local poison control center or physician IMMEDIATELY!

=====

**SECTION VI - REACTIVITY DATA**

**Stability:** Normally stable      Avoid heat and open flame

**Incompatible Materials:** Strong oxidizers, strong acids, strong alkalies, chlorides.

**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide, Formaldehyde

=====

**SECTION VII - SPILL OR LEAK PROCEDURES**

**Procedures:** Wear personal protective equipment (see section VIII). Clean up with absorbent material and place in covered container. If local laws permit, small spills can be flushed to a sanitary sewer. Formaldehyde can be neutralized with household ammonia or sodium sulfite.

**Waste Disposal Method:** Dispose of in accordance with local, state, and federal regulations.

=====

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**Resiratory:** If TLV is exceeded, or for overexposure, wear a NIOSH-approved respirator for formaldehyde.  
**Eyewear:** If potential for eye contact exists, wear chemical goggles.  
**Clothing/Gloves:** Wear chemical-resistant gloves and clothing as needed to prevent skin contact.  
**Ventilation:** Local exhaust may be necessary under some conditions. To keep vapor levels below pels.

=====

## SECTION IX - SPECIAL PRECAUTIONS

Flammable liquid: Store in closed container in cool, well-ventilated area. Section 313 Supplier Notification: Product contains the following chemicals subject to the reporting requirements of SARA (40 CFR 372)  
Formaldehyde (CAS #50-00-0) (<5%), Methyalcohol (CAS #67-56-1) (<30%),  
Ethylene dichloride (CAS #107-06-02) (<10%).