

# MATERIAL SAFETY DATA SHEET

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Effective Date: 2/03

## I. IDENTIFICATION

PRODUCT NAME: **Micro-Cide<sup>28</sup> HLD** - 3% Glutaraldehyde (Dialdehyde Solution with Activator)  
CHEMICAL NAME: Aldehydes or 1,5-Pentanedial or Glutaraldehyde  
FORMULA: OHCC<sub>3</sub>H<sub>6</sub>CHO (Glutaraldehyde, Active Ingredient)  
SYNONYMS: 3% Aqueous Glutaraldehyde Solution

## II. HAZARDOUS INGREDIENTS

<u>Principle hazardous component</u>	<u>CAS#</u>	<u>% (w/w)</u>	<u>TLV</u>
Glutaraldehyde	111-30-8	3.0	See Section V

## III. PHYSICAL DATA

BOILING POINT (°F): ca. 216	SPECIFIC GRAVITY: ca. 1.01
VAPOR PRESSURE (mm Hg): Same as Water	% VOLATILE (by Volume): 95%
VAPOR DENSITY (Air = 1): NI	EVAPORATION RATE: NI
SOLUBILITY IN WATER: Soluble	FREEZING POINT (°F): ca. 32
APPEARANCE AND ODOR: Two components: colorless fluid and powdered salts: turns green when activated.	

## IV. FIRE AND EXPLOSION HAZARD

FIRE: Not considered to be a fire hazard. If water is evaporated, however, material can burn.  
EXPLOSION: Not considered to be an explosion hazard.  
FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.  
SPECIAL INFORMATION: Use protective clothing and breathing equipment appropriate for surrounding fire.

## V. HEALTH HAZARD

LISTED AS CARCINOGEN: NPT: No IARC Monographs: No OSHA Regulated Carcinogen: No

### EXPOSURE LIMITS

Glutaraldehyde: 0.05 ppmv Ceiling, ACGIH  
0.2 ppm Ceiling OSHA - Vacated  
0.8 mg/m<sup>3</sup> Ceiling OSHA - Vacated  
0.1 ppmv Ceiling, Internal Exposure Limit

### EFFECTS OF EXPOSURE

INHALATION: May cause respiratory tract irritation, headache, chest discomfort, symptoms of bronchitis.  
SKIN CONTACT: Causes Irritation. May be absorbed through skin. Can cause sensitization.  
EYE CONTACT: Causes burns. Contact with eyes causes damage.  
INGESTION: Harmful. Corrosive to tissue. May cause nausea, vomiting and general systematic illness.  
CHRONIC EXPOSURE: Repeated contact with skin may cause sensitization in some people, resulting in allergic contact dermatitis.  
AGGRAVATION OF PREEXISTING CONDITIONS: NI

### EMERGENCY AND FIRST AID

INHALATION: Move to fresh air  
INGESTION: Give several glasses of water to drink. Avoid alcohol. Call a physician immediately. Note to physician: probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

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## **EMERGENCY AND FIRST AID (continued from page 1)**

**SKIN EXPOSURE:** Immediately flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Call a physician if irritation persists.

**EYE EXPOSURE:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## **VI. REACTIVITY DATA**

**STABILITY:** Stable under ordinary conditions of use and storage.

**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS:** None

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITIES:** NI

## **VII. SPILL OR LEAK PROCEDURE**

Contain spill. Do not contaminate food, feed or water. Open dumping is prohibited.

Ensure compliance with local, state and federal regulations.

## **VIII. OCCUPATIONAL CONTROL MEASURES**

**AIRBORNE EXPOSURE LIMITS:** See Hazardous Ingredients section.

**VENTILATION SYSTEM:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended practices," most recent edition, for details.

**SKIN PROTECTION:** Protective, chemical resistant gloves (e.g., butyl or nitrile – do not use PVC or neoprene) and liquid-proof clothing.

**EYE PROTECTION:** Safety goggles and face shield. Maintain eye wash fountain and quick-drench facilities in work area.

Keep in tightly closed container. Store in a cool, dry, ventilated area. Protect against physical damage, direct sunlight, and freezing. Follow all **Directions for Use** on the label and package insert. Wash thoroughly after use. Triple rinse empty containers thoroughly with water before disposal. Do not reuse empty containers.

Keep out of reach of children. Do not get in eyes, on skin or on clothing.

**NFPA HAZARD RATING:**

**HEALTH :** 3 (Warning - Protect skin; do not inhale; corrosive; toxic)

**FLAMMABILITY:** 0 (Normally stable, Not combustible)

**REACTIVITY:** 0 (Stable – does not react with water)

## **IX. REGULATORY INFORMATION**

**STATUS ON SUBSTANCE LISTS:**

Federal EPA

State Right-to-Know

This product contains no toxic chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right To Know Act of 1986 and of 40 CFR 372.

The information in this data sheet has been assembled by the manufacturer based on its own study and on the work of others. The manufacturer makes no warranties, express or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee, the vendee's employees, or anyone for the direct, special, or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.