



**MATERIAL SAFETY
DATA SHEET**

N-5033 ANTIMICROBIAL

DATE: 01/21/2008

CAS NO: 111-30-8
SUPERSEDES: 09/28/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: N-5033 Antimicrobial
CHEMICAL NAME: Glutaraldehyde 50%
SYNONYMS: Pentanedial
CHEMICAL FAMILY: Di Aldehyde
MOLECULAR FORMULA: C₃H₈O₂
MOLECULAR WEIGHT: 100

VERICHEM, 3499 Grand Avenue, Pittsburgh, PA 15225 (412-331-7299)

EMERGENCY PHONE: For any emergency involving spill, leak, fire, exposure, or accident call CHEMTREC: 1-800-424-9300. Outside the USA and Canada call: 703-527-3887.

2. COMPOSITION/INFORMATION ON INGREDIENTS REGULATED COMPONENTS

COMPONENT	CAS NUMBER	PERCENT	WORKER EXPOSURE	REFERENCE
Glutaraldehyde	111-30-8	50.0%	0.2 (mg/m ³) / 0.82 mg/m ³	ACGIH TWA-CEILING

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Corrosive to eyes and skin. Sensitizer. Avoid breathing vapors or spray mists. Harmful if absorbed through the skin. May be fatal if swallowed. **APPEARANCE AND ODOR:** Characteristic **EFFECTS OF OVEREXPOSURE:** Eye and skin contact with Glutaraldehyde causes severe irritation; burns and permanent injury may result. Prolonged or repeated skin contact with Glutaraldehyde may result in dermatitis. Inhalation of the mists causes irritation of the respiratory tract and inflammation of the lungs may result. Ingestion may cause moderate to severe gastric irritation including nausea, vomiting and pain. Ulceration or perforation of the gastrointestinal tract may occur. Glutaraldehyde is a strong irritant to the skin, eyes and respiratory tract. Direct contact with the concentrated liquid may produce severe irritation to the skin and eyes. Repeated dermal contact may produce sensitization. Allergic dermatitis has been known to occur in humans.

4. FIRST AID INFORMATION

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for treatment advice. **If swallowed:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.**

5. FIRE AND EXPLOSION INFORMATION

FLAMMABLE LIMITS

FLASH POINT:.....>100°C

AUTOIGNITION:.....225°C

EXTINGUISHING MEDIA:.....Water fog, carbon dioxide, foam, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. SPILL, LEAK and DISPOSAL PROCEDURES

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties. NOTE: Follow federal, state, and local regulations governing the disposal of waste materials. **Waste Disposal:** Incinerate in a licensed facility. Do not discharge into waterways or sewer systems without proper authority. **Container Disposal:** Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

7. HANDLING AND STORAGE

PESTICIDE STORAGE: Protect from freezing. Keep container closed. Store material at less than 100° F. Avoid sources of ignition.

8. PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS: Face Shield and Safety Glasses or Chemical Splash Goggles

SKIN PROTECTION REQUIREMENTS: Rubber gloves and body protective clothing such as a long trousers and protective shoes are required

VENTILATION REQUIREMENTS: Use local exhaust to control vapors or mist.

RESPIRATOR REQUIREMENTS: If ventilation is not adequate, a NIOSH/MSHA approved respirator is required. Use a respirator approved for material and level of exposure.

ADDITIONAL PROTECTIVE MEASURES: Eye-wash fountains in the work place are recommended. If slashing can occur, a face shields is advisable.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:..... Yellow Liquid
ODOR: Characteristic
DENSITY:..... 1.13 @20° C
FLASH POINT:..... Closed cup; 100°C (212°C) (Pensky- Martens)
FREEZING POINT: ~-20° C
BOILING POINT: >100° C
SOLUBILITY:..... Soluble in Water
pH (Neat):..... 3.7

10. STABILITY AND REACTIVITY

STABILITY:..... Stable
INCOMPATIBILITIES: Strong acids and strong bases
HAZARDOUS DECOMPOSITION PRODUCTS:..... Oxides of carbon
POLYMERIZATION: Does not occur

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:
ACUTE ORAL LD50: 320 mg/kg (Rat).
ACUTE DERMAL LD50: >2000 mg/kg (Rabbit).
ACUTE INHALATION LC50: 0.28-0.39 mg/l (Rat), 4 hour exposure.
PRIMARY EYE: Corrosive
PRIMARY SKIN: Corrosive

12. SATISFACTORY MATERIAL OF CONSTRUCTION

Unknown

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Waste disposal should be in accordance with existing federal, state and local environmental regulation. All handling precautions for full containers must be followed for empty containers when containers have been passed on for reconditioning or disposal, the recipient must advise of the products hazards.

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 Environment Control Agency, or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

14. **TRANSPORT INFORMATION**

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	D.O.T. Shipping Information	IMO Shipping Information	ICAO/IATA	TRANSPORT CANADA
Shipping Name	Corrosive liquid, Acidic, Organic, N.O.S. (Glutaraldehyde)	Corrosive liquid, Acidic, Organic, N.O.S. Glutaraldehyde)	Corrosive liquid, Acidic, Organic, N.O.S. (Glutaraldehyde)	
Hazard Class	8	8	8	
Packing Group	II	II	II	
Subsidiary Class	---	---	---	
UN/ID Number	3265	3265	3265	
Transport Label Required	Corrosive	Corrosive	Corrosive	
Packing Instructions Passenger Cargo				
Max. Net Quantity Passenger Cargo				
D.O.T. Hazardous Substances	Corrosive	Corrosive	Corrosive	

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Verichem Inc. have been properly packaged and labeled according to appropriate hazardous material shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information, including but not limited to proper shipping name, RQ designation, and labeling may apply. For further information pertaining to the shipping requirements for this product, contact Verichem, Inc.

15. **REGULATORY INFORMATION**

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Regulation Act):

Section 302 Extremely Hazardous Substances: No components of this product are listed.

Section 312 Hazardous Categories: Immediate (Acute)Health Hazard; Delayed (Chronic)Health Hazard.

Section 313 Toxic Chemicals: No components of this product are present above the de minimus levels.

CERCLA (Comprehensive Environmental Response, Compensation and Liabilities Act): No components of this product are listed.

RCRA (Resource Conversation and Recovery Act) Listed Hazardous Waste: D002.

CWA (Clean Water Act) Listed Substances: No components of this product are listed

FDA (Food and Drug Administration): This product is approved under the following FDA (21CFR) sections; 173.320,175.105,176.170,176.180,176.300. Limitations 176.170,176.180: For use only as an antimicrobial agent in pigment and filler slurries used in the manufacture of paper and paperboard at levels not to exceed 300 parts per million by weight of the slurry solids. For use as a single additive for beet-rugar mills not more than 250 ppm.

TSCA (Toxic Substances Control Act) Applicability: All components are listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.

16. OTHER INFORMATION

HMIS/NPCA Rating: **Health 3** **Flammability 1** **Reactivity 0**

NFPA Rating: **Health 3** **Flammability 1** **Reactivity 0**

State Regulations:

Various State Right To Know Acts:

Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary or inert ingredients please contact Verichem, Inc.

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For more information call: 1 800 778-5462 • FAX 1 412 331-7884
Or write VERICHEM, 3499 Grand Avenue, Pittsburgh, Pennsylvania 15225

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