

NFPA	Personal Protective Equipment	Transport Symbol
	   	. Not regulated.

Preparation Date No data available

Revision Date 02-Jul-2007

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Aldehyde Sanitizer
Product Code 4602
Chemical Name Glutaraldehyde, 20% formulated aqueous solution

Contact Manufacturer

Alpharma Inc.
 400 Crossing Blvd.
 Bridgewater, NJ 08807
 Phone: 908-429-6000

Supplier

Alpharma Inc.
 400 Crossing Blvd.
 Bridgewater, NJ 08807
 Phone: 908-429-6000

Emergency Telephone Numbers 1-800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Emergency Overview:

Corrosive. Causes eye burns. Irritating to skin. Irritating to respiratory system.

Physical State: Liquid

Odor: None

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects:

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity

Eyes

Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Risk of serious damage to eyes.

Skin

Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhalation

Irritating to respiratory system. Harmful by inhalation. May cause allergic respiratory reaction.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. Harmful if swallowed. Aspiration may cause pulmonary oedema and pneumonitis.

Chronic Effects

Avoid repeated exposure. Possible risks of irreversible effects.

See Section 11 for additional Toxicological information.

Main symptoms	Redness. Swelling of tissue.
Aggravated Medical Conditions	Skin disorders. Respiratory disorders.
Interactions With Other Chemicals	Not determined.
Environmental Hazard	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component(s)	CAS-No	Weight %
Water	7732-18-5	<=80
Glutaraldehyde	111-30-8	20
Methyl alcohol	67-56-1	<=0.2

4. FIRST AID MEASURES

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Never give anything by mouth to an unconscious person.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	The product itself does not burn.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. The product causes burns of eyes, skin and mucous membranes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved (or equivalent) and full protective gear.

NFPA**Health Hazard 3****Flammability 0****Instability 0****6. ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Do not breathe vapors or spray mist.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Should not be released into the environment. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment

Contain or absorb leaking liquid with sand or earth or other suitable substance. Do not breathe vapors or spray mist.

Methods for Clean-Up

Dam up. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water. Prevent product from entering drains. Do not breathe vapors or spray mist.

Other Information

Not applicable

7. HANDLING AND STORAGE**Handling**

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Ensure adequate ventilation.

Storage

Keep in properly labeled containers. Do not store with incompatible materials. See Section 10 for applicable materials. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Component(s)	ACGIH TLV	OSHA PEL
Glutaraldehyde	Ceiling: 0.05 ppm	

Component(s)	ACGIH TLV	OSHA PEL
Methyl alcohol	STEL: 250 ppm TWA: 200 ppm Skin	TWA: 200 ppm TWA: 260 mg/m ³

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles. Face-shield.

Skin Protection: Long sleeved clothing. Impervious clothing. Chemical resistant apron. Boots. Neoprene gloves.

Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Wear a positive-pressure supplied-air respirator with full facepiece.

General Hygiene Considerations

Do not get in eyes, on skin, or on clothing. Wear suitable gloves and eye/face protection. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow
Odor: None
Physical State: Liquid - 4.5213100.5
Vapor Pressure: 0.2 mmHg 20°C
Vapor Density: 0.8
Specific Gravity: 1.053 20°C
Water Solubility: Soluble in water

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above 100°C. Heating can release hazardous gases. To avoid thermal decomposition, do not overheat.

Incompatible Materials: Strong acids. strong bases.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Reactions: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Corrosive. Causes burns.

Component Information

Component(s)	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glutaraldehyde	100 mg/kg Mouse 134 mg/kg Rat	560 µL/kg Rabbit	480 mg/m ³ Rat 4 h
Methyl alcohol	5628 mg/kg Rat 7300 mg/kg Mouse	15800 mg/kg Rabbit	64000 mg/kg Rat 4 h

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
Irritation	Causes severe damage to eyes and skin.
Corrosivity	Corrosive. Causes burns.
Sensitization	Sensitization. Not applicable.
Neurological Effects	Not applicable.
Mutagenic Effects	Not applicable.
Reproductive Toxicity	Not applicable.
Developmental Toxicity	Not applicable.
Target Organ Effects	Skin, Spleen, Mucous Membrane.
Other adverse effects	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Glutaraldehyde**Microtox Data**

EC50= 76.0 mg/L 5 min

Methyl alcohol**Freshwater Fish Species Data**

LC50= 13 mg/L (rainbow trout (fingerling)) 96 h

LC50= 29400 mg/L (fathead minnow (28 days old)) 96 h

LC50= 8000 mg/L (trout) 48 h

Microtox Data

EC50= 39000 mg/L 25 min

EC50= 40000 mg/L 15 min

EC50= 43000 mg/L 5 min

Persistence/Degradability	Inherently biodegradable.
Bioaccumulation/ Accumulation	Does not bioaccumulate.
Mobility in Environmental Media	Soluble.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Should not be released into the environment. Dispose of in accordance with National, State and Local regulations.
Contaminated Packaging	Dispose of in accordance with National, State and Local regulations
US EPA Waste Number	Not applicable

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

Component(s)	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Water	X	X	-	X	-	x	X	X	X	X
Glutaraldehyde	X	X	-	X	-	X	X	X	X	X
Methyl alcohol	X	X	-	X	-	X	X	X	X	X

TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
ELINCS	Not Listed
ENCS	Listed
CHINA	Listed
KECL	Listed
PICCS	Listed
AICS	Listed

USA - Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component(s)	SARA 313 - Threshold Values (%)
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Methyl alcohol (CAS #: 67-56-1) 1.0 %

SARA 311/312 Hazardous Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

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

Present

U.S. - State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals: None

State Right-to-Know

Component(s)	Massachusetts	New Jersey	Pennsylvania	Rhode Island	Illinois
Glutaraldehyde	X	X	X	X	
Methyl alcohol	X	X	X	X	X

X - Listed

Canada**WHMIS Hazard Class**

D2B Toxic materials

16. OTHER INFORMATION

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date 02-Jul-2007

Revision Summary: Address change.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS