

Material Safety Data Sheet: MB-1563B

Supersedes Date 05/14/2009

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MB-1563B
Recommended use Biocides
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER
Corrosive
Causes eye burns
Severe skin irritation
May cause allergic skin reaction
Harmful if inhaled
Harmful or fatal if swallowed

Color Colorless	Physical State Liquid	Odor Fruity
Potential Health Effects		
Principle Route of Exposure	Skin contact, Eye contact, Inhalation.	
Primary Routes of Entry	Inhalation, Skin Absorption.	
Acute Effects		
Eyes	Corrosive to the eyes and may cause severe damage including blindness.	
Skin	Contact causes severe skin irritation and possible burns. May cause allergic skin reaction. May be absorbed through the skin in harmful amounts.	
Inhalation	Harmful by inhalation. Causes burns. Inhalation may be fatal or cause delayed lung injury. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May cause central nervous system effects such as headache, dizziness, weakness, staggering gait, nausea, blurred vision, excitation, and in extreme cases, coma or death. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.	
Chronic Toxicity	May cause sensitization by skin contact. Inhaled corrosive substances can lead to a toxic edema of the lungs. Contains material that may adversely affect the developing fetus.	
Target Organ Effects	Respiratory system, Central nervous system, Immune system, Liver, Skin, Eyes.	
Aggravated Medical Conditions	Respiratory disorders, Neurological disorders, Liver disorders, Skin disorders.	
Potential Environmental Effects	See Section 12 for additional Ecological information.	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Glutaraldehyde	111-30-8

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point	Does not flash	Method	Not applicable
Autoignition Temperature	No information available.		

Flammability Limits in Air % No information available.

Upper No data available

Lower No data available

Suitable Extinguishing Media

Foam. Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors. Contact with metals may evolve flammable hydrogen gas. In the event of fire and/or explosion do not breathe fumes. Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

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

NFPA Health 3

Flammability 1

Instability 0

HMIS Health 3

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Prevent further leakage or spillage if safe to do so. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental Precautions	Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water. Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13)
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition.
Storage	Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.
Storage Temperature	Minimum 45 °F / 7 °C
Storage Conditions	Indoor X Outdoor Maximum Heated 80 °F / 27 °C Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Glutaraldehyde	Ceiling: 0.05 ppm	No data available	Ceiling: 0.2 ppm Ceiling: 0.8 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Colorless	Odor	Fruity
Appearance	Transparent	pH	3.1
Specific Gravity	1.04	Evaporation Rate	0.8 (Butyl acetate=1)
Percent Volatile (Volume)	100	VOC Content (%)	15
VOC Content (g/L)	156.3	Vapor Pressure	0.3 mmHg @ 68°F
Vapor Density	0.7 (Air = 1.0)	Solubility	Completely soluble
Boiling Point/Range	213.3 °F / 101 °C		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks
Incompatible Products	Strong oxidizing agents, Reducing agents, Acids, Bases.
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Glutaraldehyde	= 66 mg/kg (Rat)	> 2000 mg/kg (Rat) = 560 µL/kg (Rabbit)	= 0.1 mg/L (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Glutaraldehyde	no data available	skin sensitization, respiratory sensitization	X	no data available	eyes, respiratory system, skin, immune system, liver, CNS

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Glutaraldehyde	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Glutaraldehyde	EC50 = 0.61 mg/L Desmodesmus subspicatus 72 h EC50 = 0.84 mg/L Desmodesmus subspicatus 96 h	LC50 7.8 - 22 mg/L Lepomis macrochirus 96 h LC50 2.6 - 4.8 mg/L Oncorhynchus mykiss 96 h LC50 7.8 - 13 mg/L Oncorhynchus mykiss 96 h LC50 = 5.4 mg/L Pimephales promelas 96 h	EC50 = 13.3 mg/L 17 h EC50 = 76.0 mg/L 5 min	EC50= 14 mg/L 48 h EC50 0.56 - 1.0 mg/L 48 h	0.22

Persistence and Degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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 environmental control agency.

Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class 8
UN-No UN3265
Packing Group III
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG III

TDG

Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class 8
UN-No UN3265
Packing Group III
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG III

ICAO

UN-No UN3265
Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class 8
Packing Group III

Shipping Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG III

IATA

UN-No UN3265
Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class 8
Packing Group III
ERG Code 153
Shipping Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG III

IMDG/IMO

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Hazard Class 8
UN-No UN3265
Packing Group III
Shipping Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG III

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Glutaraldehyde	Not applicable	Not applicable

Canada

This product is exempt from WHMIS due to PCP registration

WHMIS Hazard Class

Exempt

16. OTHER INFORMATION

Prepared By Rachael Mohochi
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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