Safety Data Sheet MB-1563B, CM

Supercedes Date 07/08/2016 **Issuing Date** 08/17/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MB-1563B, CM
Recommended use Biocides
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0681
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless **Physical state** Liquid **Odor** Fruity

GHS
Classification
Physical Hazards
Corrosive to Metals

Health Hazard

Aspiration Toxicity	Category 1
Acute Oral Toxicity	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin sensitization	Category 1

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H290 - May be corrosive to metals

Precautionary Statements
P280 - Wear protective gloves, protective clothing and eye protection.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use in a well-ventilated area.
P260 - Do not breathe mist or vapors
P284 - Wear respiratory protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P315 - Get immediate medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P406 - Store in a corrosion-resistant container.
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Glutaraldehyde	111-30-8	10-30

*The exact percentage (concentration) of composition has been withheld as a trade secret

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** No data 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, NOHSC (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 **Maximum** 80 °F / 27 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **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
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	3.1	**Specific Gravity**	1.04
Evaporation Rate	0.8 (Butyl acetate=1)	**Percent Volatile (Volume)**	0
VOC Content (%)	15	**VOC Content (g/L)**	0
Vapor Pressure	0.3 mmHg @ 68°F	**Vapor Density**	0.7 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	213.3 °F / 101 °C	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	No data available
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	No information available	**Upper:** No data available **Lower:** No data available	

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.
Decomposition Temperature No data available
Hazardous Decomposition Products Carbon oxides.
Possibility of Hazardous Reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document
Oral LD50 440.00
Dermal LD50 3,669.40
Inhalation LC50
- **Gas** No information available
- **Mist** 3.31
- **Vapor** No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry Skin contact, 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.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Glutaraldehyde 111-30-8	= 252 mg/kg (Rat)	= 560 µL/kg (Rabbit)	= 0.1 mg/L (Rat) 4 h	No data available	No data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Glutaraldehyde 111-30-8	No data available	skin sensitization, respiratory sensitization	X	No data available	Skin Eyes Respiratory system

Carcinogenicity

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficien
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	14: 48 h Daphnia magna mg/L EC50 0.56 - 1.0: 48 h Daphnia magna mg/L EC50 Static	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** II
- **Description** UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(GLUTARALDEHYDE),8, PG II

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

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

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

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

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 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

16. OTHER INFORMATION

Prepared By	Adrienne McKee
Supercedes Date	07/08/2016
Issuing Date	08/17/2016
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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