



Material Safety Data Sheet

1 .Product And Company Identification

Trade Name	Glutaraldehyde 50%
Chemical Name	Glutaraldehyde; 1,5-Pentanedial; Glutaral;
Company Identification	Hubei Microbial Control Biological Technology Co., Ltd
Address	Tuotangcun Yangyinling Huangzhou District, Huanggang, Hubei Province China
Tel	+86-27-83619372
Fax	+86-27-83627435

2 .Information On Ingredients

Ingredient	CAS NO.	Percent	Hazardous
Water	7732-18-5	≤49	
Glutaraldehyde	111-30-8	≥50	Yes
Methanol	67-56-1	≤1.0	

3 . Hazards Identification

CLASSIFICATION

Acute toxicity, Oral, Inhalation - Category 3

Skin corrosion/irritation - Category 1

Serious eye damage/eye irritation - Category 1

Skin sensitization - Category 1

Respiratory sensitization - Category 1

Target Organ Systemic Toxicant - Single exposure - Category 2

Corrosive to metals - Category 1

Acute aquatic toxicity - Category 1

GHS LABEL ELEMENTS





HBWK
湖北微控

湖北微控生物科技有限公司
Hubei Microbial Control Biological Technology Co., Ltd



SIGNAL WORD : Danger

HAZARD STATEMENTS

Toxic if swallowed.

Toxic if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Causes damage to organs.

May be corrosive to metals.

Very toxic to aquatic life.

PRECAUTIONARY STATEMENTS

Prevention:

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.



HBWK
湖北微控

地址：中国湖北省黄冈市黄州区杨因岭舵塘村

Address: Tuotangcun Yangyinling Huangzhou District, Huanggang, Hubei Province China

Tel : 0713-8466705

Fax : 0713 -8466705

Postcode: 438000

E-mail: nijie@whdico.com

info@whdico.com

bing@whdico.com



IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations

4. FIRST AID MEASURES

Eye:

Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting the upper and lower eyelids.

Seek immediate medical attention - ophthalmologist recommended.

Skin:

Immediately flush skin with copious amounts of water for at least 15 minutes. Seek medical attention immediately. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

DO NOT INDUCE VOMITING. Urgently seek immediate medical attention. Do NOT give anything to drink. Call a poison control center. Oral toxicity of Glutaraldehyde increases with dilution - drinking water can enhance the toxicity.

Inhalation:

Seek medical attention immediately. Remove to fresh air. If breathing is difficult, administer oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration by use of oxygen and suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE- FIGHTING MEASURES

General Information:

Flash Point: None, Tag Closed Cup (ASTM D56).

Flammable limits: Not determined (aqueous system).





Extinguishing Media:

Non-flammable. After the water evaporates, the remaining material will burn. Use alcohol-type or all-purpose-type foam applied by manufacturer's recommended technique for large fires. Use CO2 or dry chemical media for small fires. Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions listed in the Protective Equipment section. Absorb spill using absorbent, non-combustible material such as sand, earth, or vermiculite. Provide ventilation.

Personal Precaution:

Standard turn out gear for flammable liquids.

Environmental Protection:

This product is toxic to aquatic organisms. Do not allow the substance or solution of the substance to be discharged into lakes, streams, ponds or public waters.

Cleanup Procedures:

Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Dispose of in accordance with current laws and regulations.

7. HANDLING & STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin or clothing. Use only with adequate ventilation. Avoid breathing vapor.

Storage:

Storage: Keep container tightly closed when not in use. Store in cool, dry, well-ventilated area away from incompatible substances. Refrigeration recommended





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

Use local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. An eyewash facility and a safety shower should be readily available.

Exposure Limit:

Chemical Name	ACGIH	NIOSH	OSHA
Glutaraldehyde	0.05 ppm	Not Listed	Not Listed
Water	Not listed	Not Listed	Not listed

OSHA Vacated PELs: Not Listed

Adequate ventilation must be provided to keep the vapor concentration in work areas as low as possible.

Protective Equipment:

Eyes:

Wear chemical safety goggles. Wash contaminated goggles before reuse.

Skin:

Wear rubber apron and gloves when handling the product.

Personal

Hygiene:

Wash hands and other exposed areas of skin with soap and water after handling the material.

Inhalation:

Do not breathe vapors. The use of an appropriate respiratory protection may be required.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Colorless or light yellow transparent liquid in room temp

Assay:	50-51.5%
PH(25 °C):	3.1-4.5
Boiling Point ~:	100.5°C/213°F (1013hpa)
freezing point:	-21°C/6°F
Flash point:	No data available
Specific Gravity	1.126-1.135 at 20 °C
Soluble in :	Water





10. STABILITY & REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: High Temperatures

Incompatibility with Other Materials: Strong oxidizing agents, contamination with acids or bases

Hazardous Decomposition of Products: carbon monoxide or carbon dioxide

Hazardous Polymerization: Non-hazardous polymerization may occur. Avoid initiators, accelerators, heat, pressure, and contamination.

11. TOXICOLOGICAL INFORMATION

RTECS#:

111-30-8: MA2450000

7732-18-5: ZC0110000

LD50/LC50 Information:

CAS # 111-30-8;

Draize test, rabbit, eye: 1 mg Severe

Draize test, rabbit, eye: 250ug/24H Severe

Inhalation, rat: LC50=480 mg/m³/4h

Oral, mouse: LD50= 100 mg/kg

Oral, rat: LD50=2231 mg/kg

Carcinogenicity:

CAS# 111-30-8 is not listed by ACGIH, IARC, NTP, OR CA Prop 65.

CAS# 7732-18-5 is not listed by ACGIH, IARC, NTP OR CA Prop 65

Teratogenicity:

See RTECS entry for complete information

Reproductive Effects: N/A

Neurotoxicity: N/A

Mutagenicity: N/A

Other Studies: N/A

12. ECOLOGICAL INFORMATION

Not Available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.





RCRA P-Series: none listed

14. TRANSPORT INFORMATION

Proper Shipping Name: corrosive liquid,acidic,organic,n.o.s
(Glutaraldehyde)

UN Number: UN3265

Under Hazard Class: Class 8

Packing Group: II

15. REGULATORY INFORMATION

United States:

TSCA

CAS# 111-30-8 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

Health & Safety Reporting List

None of the chemicals in this product is on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product is under a Chemical Test Rule.

Section 12b:

None of the chemicals in this product is listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this product has a SNUR under TSCA.

CERCLA Hazardous Substances:

None of the chemicals in this product has an RQ.

SARA Section 302 (TPQ)

None of the chemicals in this product has a TPQ.

SARA Codes

CAS# 111-30-8: Immediate

Section 313

None of the chemicals in this product is reportable under Section 313.

Clean Air Act:

This product does not contain any hazardous air pollutants, any Class 1 Ozone depleters, or and Class 2 Ozone depleters.

Clean Water Act:





None of the chemicals in this product is listed as a Hazardous Substance, as a Priority Pollutant, or as a Toxic Pollutant under the CWA. OSHA: None of the chemicals in this product is considered highly hazardous by OSHA.

State (Individual states in the USA)
CAS# 111-30-8 can be found on the California, Massachusetts, Minnesota, New Jersey, and Pennsylvania right to know list.
CAS# 7732-18-5 is not present on any state list.
California Prop. 65:
California No Significant Risk Level: None of the chemicals in this product is listed.

European/International Regulations:
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:

R22 Harmful if swallowed
R23 Toxic by inhalation
R34 Causes burns
R42 May cause sensitization by inhalation
R43 May cause sensitization by skin contact

Safety Phrases:
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36 Wear suitable protective clothing
S37 Wear suitable gloves
S38 Wear eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection):
CAS#111-30-8: 2
CAS#7732-18-5: n/a
Canada DSL/NDSL:
Cas# 111-30-8 is listed on Canada's DSL List.
CAS# 7732-18-5 is listed on Canada's DSL List.





Canada - WHMIS:

This product has a WHMIS Classification of D1B, E, D2A, D2B

Canadian Ingredient Disclosure List:

CAS# 111-30-8 is listed on the Canadian Ingredient Disclosure List.

16. ADDITIONAL INFORMATION

The information contained in this MSDS is believed to be accurate and represent the best information currently available to us. We have tried to make the information as accurate as possible, however, it must be pointed out that we make no warranty of merchantability or any other warranty, expressed or implied.

Hubei Microbial Control Biological Technology Co., Ltd disclaims any liability for any injury or loss arising from the use of this information or the materials described. Users should make their own investigations to determine the suitability of the information for their particular applications. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any social, indirect, incidental, consequential or exemplary damages, how so ever arising, even if the company has been advised of the possibility of such damages.

MSDS Creation Date: 3/15/2010

Revision Date: 9/20/2012

