

# Glutaraldehyde, EM Grade, 8% Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 11/30/2021 Supersedes: 07/15/2015 Version: 1.0

ECTION 1: Identification	
.1. Identification	
Product form	: Mixture
Trade name	: Glutaraldehyde, EM Grade, 8%
CAS-No.	: 111-30-8
Product code	: 00216
Formula	: C5H8O2
.2. Recommended use and restriction	ns on use
Recommended use	: Use as laboratory reagent, Manufacture of substances
.3. Supplier	
Supplier Polysciences	
400 Valley Road	
Warrington, PA 18976 - United States	
T +1 215 343 6484 - F +1 215 343 0214	
info@polysciences.com - www.polysciences.	.com
.4. Emergency telephone number	
Emergency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	r mixture
GHS US classification	
Acute toxicity (inhalation) Category 2	Fatal if inhaled
Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage
Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Respiratory sensitization, Category 1	Causes severe skin burns and eye damage 1 Causes serious eye damage May cause an allergy or asthma symptoms or breathing difficulties if inhaled
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Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Respiratory sensitization, Category 1 Skin sensitization, category 1A Specific target organ toxicity – Single exposu	Causes severe skin burns and eye damage 1 Causes serious eye damage May cause an allergy or asthma symptoms or breathing difficulties if inhaled
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Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Respiratory sensitization, Category 1 Skin sensitization, category 1 Specific target organ toxicity – Single exposu 3, Respiratory tract irritation Hazardous to the aquatic environment – Acu Category 1 Hazardous to the aquatic environment – Chro Category 2 <b>2.2.</b> GHS Label elements, including pr GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US)	Causes severe skin burns and eye damage         May cause an allergy or asthma symptoms or breathing difficulties if inhaled         May cause an allergic skin reaction         ure, Category       May cause respiratory irritation         te Hazard       Very toxic to aquatic life         onic Hazard       Toxic to aquatic life with long lasting effects         recautionary statements         :
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2.3.	Other hazards which do not result in classification
No add	itional information available
2.4.	Unknown acute toxicity (GHS US)
Not app	blicable
SECT	ION 3: Composition/Information on ingredients
3.1.	Substances
Not app	blicable
3.2.	Mixtures
This mi	xture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting.
4.2. Most important symptoms and eff	ects (acute and delayed)
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/effects after ingestion	: Burns.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECT	ION 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishi	ng media
Suitab	le extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the che	emical
Hazar fire	dous decomposition products in case of	: Toxic fumes may be released.
5.3.	Special protective equipment and pre	ecautions for fire-fighters
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECT	ION 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1. Emerg	For non-emergency personnel gency procedures	<ul> <li>Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.</li> </ul>
6.1.2.	For emergency responders	
Protec	ctive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for containmer	it and cleaning up
For co	ntainment	: Collect spillage.
Metho	ds for cleaning up	: Take up liquid spill into absorbent material.
Other	information	: Dispose of materials or solid residues at an authorized site.

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6.4.	Reference to other sections	
For furth	er information refer to section 13.	
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygien	e measures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2.	Conditions for safe storage, including a	any incompatibilities
Storag	e conditions :	Store at 4 deg. C. Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection		
8.1.	8.1. Control parameters	
Glutaraldehyde, EM Grade, 8% (111-30-8)		
No	additional information available	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

Hand protection:
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Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



<b>SECTION 9: Physical and ch</b>	emical properties	
9.1. Information on basic phys	ical and chemical properties	
Physical state	: Liquid	
Appearance	: clear colorless liquid acrid odor.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: no data	
Melting point	: -21.11111111 °C F	
Freezing point	: No data available	
Boiling point	: 213 °F F	
Flash point	: no data	
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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 0.2 mm Hg at 20C
Relative vapor density at 20°C	: 1.1
Relative density	: No data available
Solubility	: Water: 100 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information 11.1. Information on toxicological effects

TI.I. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Fatal if inhaled.
Glutaraldehyde, EM Grade, 8% (111-30-8)	
LD50 oral rat	2.3 ml/kg ml/kg
ATE US (oral)	2300 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.5 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns.
	pH: no data
Serious eye damage/irritation	: Causes serious eye damage.
	pH: no data
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information				
12.1.	Toxicity			
Ecology - general		: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.		
12.2.	Persistence and degradability			
No additional information available				
12.3.	Bioaccumulative potential			
No additional information available				
12.4.	Mobility in soil			
No additional information available				
12.5.	Other adverse effects			
No additional information available				

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
SECTION 14: Transport information		
Department of Transportation (DOT)		
In accordance with DOT		
Transport document description	: UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III	
UN-No.(DOT)	: UN3265	
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s.	
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Packing group (DOT)	: III - Minor Danger	
Hazard labels (DOT)	: 8 - Corrosive	
	CORROSIVE 8	

Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : Yes

: Yes

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>386 - Notwithstanding the provisions of §177.834(I) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
DOT Vessel Steware Other	passenger vessel.
DOT Vessel Stowage Other Emergency Response Guide (ERG) Number	: 40 - Stow "clear of living quarters" : 153
Emergency Response Guide (ERG) Number Other information	: 153 : No supplementary information available.
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Transport document description (IMDG)	: UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, III
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L - Yee
Marine pollutant	: Yes
Air transport	
Transport document description (IATA)	: UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Low danger
SECTION 15: Regulatory information	

#### 15.1. US Federal regulations

Glutaraldehyde, EM Grade, 8% (111-30-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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#### 15.2. International regulations

#### CANADA

Glutarald	dehyde, EM Grade, 8% (111-30-8)
Listed on t	the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

National regulations No additional information available

#### 15.3. US State regulations

Glutaraldehyde, EM Grade, 8% (111-30-8)	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

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Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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