

# TCI AMERICA SAFETY DATA SHEET

Revision number: 1 **Revision date: 07/06/2018** 

#### 1. IDENTIFICATION

Product name: Glutaraldehyde (24-26% in Water)

Product code: G0067

For laboratory research purposes. Product use: Restrictions on use: Not for drug or household use.

Company: TCI America

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Emergency telephone number:

Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.) +1-703-527-3887 (International)

Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

#### 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4]

Acute Toxicity - Inhalation [Category 2] WHMIS 2015:

Eye Damage/Irritation [Category 1] Sensitization - Respiratory [Category 1] Sensitization - Skin [Category 1]

Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1]

Aquatic Hazard (Acute) [Category 2] Skin Corrosion/Irritation [Category 1B]

Signal word: Danger!

Hazard Statement(s): Harmful if swallowed

Fatal if inhaled

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Toxic to aquatic life

Causes damage to: Central Nervous System

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Respiratory System

#### Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash hands and face thoroughly after handling. Wear respiratory protection. Wear protective gloves, protective clothing, face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on [Response] skin (or hair). Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a poison center or doctor. If exposed: Call a poison center or doctor.

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

[Storage]

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

May be harmful if in contact with skin.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Components: Glutaraldehyde (24-26% in Water)

 Percent:
 ....

 CAS RN:
 111-30-8

 Molecular Weight:
 100.12

 Molecular Weight:
 100.12

 Chemical Formula:
 C<sub>5</sub>H<sub>8</sub>O<sub>2</sub>

Hazardous ingredient(s): Glutaraldehyde (50%) 111-30-8

Water (50%) 7732-18-5

#### 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a

POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms/effects:

Acute: Pain. Redness.

**Delayed:** May cause skin sensitization. May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available.

Notes to physician:
No data available

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**Hazardous combustion products:** These products include: Carbon oxides

Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

etc.

**Environmental precautions:** Prevent product from entering drains.

Methods and materials for containment

and cleaning up:

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly

disposed of, in accordance with appropriate laws and regulations.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Light-sensitive Air-sensitive

Packaging material: Comply with laws.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits:** 

ACGIH TLV(CL): 0.05 ppm (sen) 0.03 ppm JSOH OELs(CL):

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed Appropriate engineering controls:

system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national

regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear Colour: Colorless Odour: Pungent

Odor threshold: No data available Odour threshold: No data available

No data available No data available Melting point/freezing point: pH: Boiling point/range: No data available Vapour pressure: No data available. **Decomposition temperature:** No data available Vapour density: 1.05

Relative density: 1.06

No data available Kinematic viscosity:

No data available Log Pow:

**Evaporation rate(Butyl** No data available

**Dynamic Viscosity:** 

Acetate=1):

No data available Autoignition temperature: No data available Flash point:

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: No data available Upper: No data available

No data available

Solubility(ies):

Miscible [Water] [Other solvents] Soluble: Alcohols

# 10. STABILITY AND REACTIVITY

Reactivity: No data available

Stable under proper conditions. Chemical stability: Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents, Strong bases Hazardous decomposition products: Carbon dioxide, Carbon monoxide

#### 11. TOXICOLOGICAL INFORMATION

RTECS Number: MA2450000

**Acute Toxicity:** 

orl-rat LD50:134 mg/kg skn-rbt LD50:560 uL/kg ihl-rat LC50:480 mg/m³/4H skn-rbt LD50:17900 ug/kg

Skin corrosion/irritation:

skn-rbt 2 mg/24H SEV skn-hmn 6 mg/3D-I SEV

Serious eye damage/irritation:

eye-rbt 250 ug/24H SEV

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

dnd-hmn-leu 5 umol/L mmo-esc 62500 ng/plate (-S9) mmo-sat 150 ug/plate (-S9)

Carcinogenicity:

orl-rat TDLo:2912 mg/kg/104W-C

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-rat TDLo:1 g/kg (6-15D preg) orl-rat TDLo:167.4 mg/kg (multigenerations)

Target organ(s):

Causes damage to: Central Nervous System

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure: Respiratory System

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: Bioaccumulative potential(BCF): No data available No data available

Mobility in soil

Log Pow: No data available
Soil adsorption (Koc): No data available
Henry's Law (PaM ³/mol): No data available

13. DISPOSAL CONSIDERATIONS

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and

Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

Observe all federal, state and local regulations when disposing of the substance.

#### 14. TRANSPORT INFORMATION

DOT (US) UN number UN2927

UN number: Proper Shipping Name:

Toxic liquids, corrosive, organic, n.o.s

Toxic liquid, corrosive, organic, n.o.s

Class or Division:

Subrisk(s):

Packing Group:

6.1 Toxic material.

8 Corrosive material

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UN number: Proper Shipping Name:

Class or Division: 6.1 Toxic material. Subrisk(s): 8 Corrosive material Packing Group:

**IMDG** 

UN2927

UN UN2927

**Proper Shipping Name:**Toxic liquid, corrosive, organic, n.o.s

Class or Division: 6.1 Toxic material.

Subrisk(s): 8 Corrosive material Packing Group:

er:

EmS number:

F-A, S-B

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

# **US Federal Regulations**

#### **CERCLA Hazardous substance and Reportable Quantity:**

SARA 313: Not Listed SARA 302: Not Listed

# State Regulations

State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Listed
Listed
Not Listed

#### **Other Information**

NFPA Rating:
Health: 4
Flammability: 0
Instability: 0
Physical: 0

# **International Inventories**

 Canada: DSL
 On DSL

 EC-No:
 203-856-5

# 16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.