



Material Safety Data Sheet
TGSTRU GPLUS

Documentation Code: FR-C-RD-OC-20
Revision No.: 01
Issue Date: 2021.11.30
Validity Date: 2027.11.30

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Glutaraldehyde-based disinfectant solution

Trade name: TGSTRU GPLUS

1.2. Product use: High level, Ready to use, disinfection of medical, surgical & endoscope instruments

1.3 Details of the supplier of the safety data sheet

Producer: TGS Company

Telephone number: 021-52868

Email: hello@tgs.co.com

Section 2: Hazards identification

2.1. Classification

Acute toxicity (oral) Category 4, Acute toxicity (inhalation) Category 3, Skin irritation Category 1, Skin corrosion category 1B, Serious eye damage/eye irritation Category 1 and Long-term aquatic toxicity category 1

2.2. Label Elements



Corrosive



Irritant/Harmful



Long-term
aquatic toxicity

Precautionary Statements – Prevention:

Keep only in original packaging. Wear protective gloves, protective clothing and eye or face protection.

Do not breath dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements – Response:

Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water.

Section 3: Composition/information on ingredients

Name	CAS Number	Classification
Glutaraldehyde	111-30-8	Acute toxicity (oral) Category 3, Skin corrosion/irritation Category 1B, Serious eye damage/eye irritation Category 1



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Section 4. First Aid Measures

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.

Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. If person becomes uncomfortable seek medical advice.

Section 5. Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide (CO₂), and dry chemical powder. Water spray may be used for cooling containers and dispersing vapors, but not for extinguishing the main fire.

Unsuitable extinguishing media: Do not use a direct water jet, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

CO, CO₂, NO_x, C_xH_yO

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Avoid discharge into storm drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Contain spill by placing suitable absorbent material around the edges of the spill and work inward. Carefully scoop up into waste container for disposal. Dispose of in accordance with applicable Federal, State and Local Regulations. Following product recovery, flush area with water.

6.4 Reference to other sections

For personal protective equipment see subsection 8. For disposal considerations see section 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing. Avoid contact with skin. Do not breathe spray. Use only with adequate ventilation. See chapter 8, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Store in a closed container. Keep only in original packaging. Keep at temperature between 15-25 °C. Keep from freezing. Keep away from heat and direct sunlight.



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7.3 Specific end use(s)

No specific advice for end use available.

Section 8. Exposure controls/personal protection

Personal protective equipment

Eye / face protection: Wear safety glasses with side shields.

Skin protection: Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing.

Respiratory protection: In case of risk of inhalation of vapour/aerosols: Use high efficiency particulate respirator with appropriate filter.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unnaturalized.

Section 9. Physical and chemical properties

Physical state: liquid

Color: Clear, Colorless

Odor: Characteristic aldehyde

pH= 5.5-6.5

Section 10. Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

Keep away from strong oxidizing agents, strong acids, strong bases and active metals.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

Extremes of temperature, direct sunlight and prolonged heating at temperature above 40°C.

10.5 Incompatible materials

Strong oxidizers, strong acids, and strong bases.

10.6 Hazardous decomposition products

CO₂, CO, other organic compounds

Section 11. Toxicological information

11.1 Information on toxicological effects

Experimental data regarding the toxicological properties of the product itself are not available. Ingestion of a significant amount may cause throat irritation, abdominal pain, nausea, and vomiting. Prolonged inhalation of the product can be corrosive to mucous membranes and the upper respiratory tract. Skin contact may cause burns. Contact with eyes can result in serious eye damage.

Section 12. Ecological information

12.1 Toxicity

Not expected to be harmful to aquatic organisms.

12.2. Biodegradation

CO₂, H₂O

12.3 Other adverse effects

Due to rapid degradation, it does not persist in the environment. Although readily biodegradable, its acute toxicity to aquatic organisms means that release into surface waters in high concentrations may have harmful effects on aquatic life. Therefore, uncontrolled release into the environment should be avoided.



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Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Section 14. Transport information

14.1. UN Number: UN2922

14.2. Proper Shipping Name: Toxic liquid, Corrosive, N.O.S.

14.3. Transport Hazard Class: 8

14.4. Packing Group: II

14.5. Special Precautions:

- " Handle with care; corrosive to skin and eyes; aquatic pollutant " warning label required

Section 15. Regulatory information

This product is approved by the Iran Food and Drug Administration

Section 16. Other information

16.1. Revision Date: 09-09-2023