



Material Safety Data Sheet
TGSURF AG PLUS

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: Hydrogen peroxide-based disinfectant solution

Trade name: TGSURF AG PLUS

1.2. Product use: High level, Ready to use, disinfection of surfaces and environment

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

Oxidizing liquids Category 3, Skin irritation Category 2, Serious eye damage/eye irritation Category 2A

2.2. Label Elements



Corrosion



Irritant/Harmful



Oxidizer

Precautionary Statements – Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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
Hydrogen peroxide	7722-84-1	Ox. Liq. 1, Skin Corr. 1B, Acute Tox. 4, Eye Irritation 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

Cool endangered packaging with water spray jet.

Hazardous combustion products: May intensify fire; oxidizer.

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

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb onto dry sand or similar inert material. Do not use fabric, sawdust, paper or other inflammable materials (danger of spontaneous combustion). Ensure adequate ventilation. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. 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. Wear suitable protective clothing, gloves and eye/face protection.

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 Diversy. 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.



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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original packaging with a vented cap. Store in a closed container. Store in a well-ventilated place. Keep cool. Keep away from heat and direct sunlight. Keep at temperature between 15-25 °C. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

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 product

pH= 2.0-3.0

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, organic solvents 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

10.5 Incompatible materials

Strong acids, combustive materials, combustible materials and strong bases.

10.6 Hazardous decomposition products

Under normal storage and use conditions, no hazardous decomposition products are generated from the product.

Section 11. Toxicological information

11.1 Information on toxicological effects

The experimental information related to the toxicological properties of the product itself is not available.

A- Ingestion:

Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

Corrosively/Irritability: Corrosive product, its consumption causes burns destroying the full thickness of fabrics. For more information on the secondary effects of contact with the skin see section 2.

B- Inhalation:

Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information, see section 3.

Corrosively/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract.

C- Contact with the skin and the eyes:



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Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.

Contact with the eyes: Produces serious eye damage after contact.

11.2 Information on other hazards

No other relevant information available.

Section 12. Ecological information

12.1 Toxicity

No information available.

12.2. Biodegradation

Hydrogen peroxide rapidly decomposes in the environment to water and oxygen.

12.3 Other adverse effects

No other adverse effects known.

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: UN2984

14.2. Proper Shipping Name: Hydrogen peroxide

14.3. Transport Hazard Class: 5.1 (Oxidizing substance)

14.4. Packing Group: III

14.5. Special Precautions:

" Avoid exposure to heat and incompatible materials during transport " 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