



Safety Data Sheet

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Chemical name : Hydrogen Peroxide
Synonyms : Dihydrogen Dioxide 、Hydroperoxide
CAS No. : 7722-84-1
Ingredient contributing to the hazard(%) : 30~60%

Section 4 - First Aid Measures

<p>The First-aid Information :</p> <ul style="list-style-type: none">■ Inhalation :<ol style="list-style-type: none">1. Moved exposed person to fresh air.2. If not breathing, give Artificial respiration by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (CPR), avoid mouth to mouth.3. Keep warm and rest.4. Seek medical attention immediately.■ Skin Contact :<ol style="list-style-type: none">1. Remove contaminated cloths, shoes, and leather products.2. Use warm water to gently wash contaminated area of the skin for at least 20 – 30 min. Do not stop during the process.3. Seek medical attention immediately.■ Eye Contact :<ol style="list-style-type: none">1. Immediately lift lower and upper eyelids and gently flush eyes with plenty of warm water for at least 30min.2. Seek medical attention immediately.■ Ingestion :<ol style="list-style-type: none">1. Do not induce vomiting.2. If patient continue vomiting, lean the body forward to prevent swallowing the vomits, repeat gargling.3. Seek medical attention immediately.
The Most Important Symptoms and Hazardous Effects : Corrosive injury; color of skin become white temporarily; cause severe blindness, necrosis, pulmonary edema.
Protection of First-aiders : Wear class C equipment to do first aid in a safety zone
Notes to a Physician : <ol style="list-style-type: none">1. Inform their way to expose.2. In patients with inhalation, consider giving oxgen.

Section 5 - Fire Fighting Measures

Extinguishing Media : Water, carbondioxide
Specific Hazards when Fire-fight : <ol style="list-style-type: none">1. Concentrated Hydrogen peroxide is strong oxidant , itself is not flammable , but with other reducing agent and flammable organic reaction maybe cause heat that will induce flame or explosion.2. If exposed to fire or overheating, may be rapid decomposition of the airtight container fission.
Specific Fire-fighting Procedure : Retreat and fire-fighting in a safe area.
Specific Protection of Firefighters :



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To wear full-body chemical-protective clothing and self-contained breathing apparatus in pressure demand. (If necessary, plus anti-Semitic fire coat aluminum coating)

Section 6 - Accidental Release Measures

Personal Precautions :

1. To wear full-body chemical-protective clothing and self-contained breathing apparatus in pressure demand.
2. Ensure clean up is conducted by trained personnel only.
3. Must wear proper personal protection equipment.

Environmental Precautions :

1. Keep the leaked area ventilated.
2. Remove all sources of ignition.
3. To forbid ignition sources .

Methods for Cleaning up :

1. Use large water to dilute.
2. Stop leak if without risk.

Section 7 - Handling and Storage

Handling :

1. All storage containers need to be selection carefully for reducing the risk of reaction.
2. Prepare water near the storage place.
3. For keeping concentration of H₂O₂, the residual solution do no return to the original container.
4. Labeled the container. Secure and cover the container when not in use to prevent damage.
5. Use water to clean before evacuating.
6. Do not use air pressure to evacuate the container.

Storage :

1. Stored in cool, dried and well ventilated area. Avoid direct contact with the sun light and other heat source.
2. Keep flammable substances , heavy metals, catalytic metals far away.
3. Stored in labeled suitable container .Secure and cover the container when not in use to prevent damage.

Section 8 - Exposure Controls & Personal Protection

Engineering measures :

1. Stored in well ventilated area and keep H₂O₂ vapor concentration under TWA.

Control parameters

TWA	STEL	Ceiling	Biological standards
1ppm	2ppm	--	--

Personal protective equipment : Choose the right protective equipment in accordance with the working environment and the concentration of the hazardous substances.

■ Respiratory Protection :

Wear continuous-flow mode respirator with oxygen contained breathing apparatus or NIOSH approved full-face piece self-contained breathing apparatus.

- Hand Protection : Impervious gloves, rubber material, nature rubber, or butyl, Responder, Viton, CPF3.



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- Eye Protection : Chemical splash goggles/mask. Do not wear contact lens.
- Skin and Body Protection : Rubber material of the above-mentioned protective suite, and boots.

Hygiene measures :

1. Cultivate proper habits, prohibit eating and drinking in the working area, wash hand after finishing the work.
2. Take off contaminated work cloths as soon as the work is done, wash before wearing or disposal, and should inform the laundry staff about the hazardous agent.
3. Prohibit smoking, eating and drinking in the work area.
4. After dealing with the material , should wash hand completely.
5. Maintain cleanliness in the work area.

Section 9 - Physical & Chemical Properties

Appearance : Liquid	Odor : Tasteless Olfactory Threshold : 0.75-2.5ppm (detected)
Color : Colorless	Melting Point: -11.5°C (90% solution)
pH value : 3-4	Boiling point/boiling range : 152°C
Flammability: --	Flash point : --
Decomposition temp : --	Test method(Opened or closed cup) : --
Auto ignition temp : --	Explosion properties : --
Vapor pressure : 0.3mmHg@30°C (35%)	Vapor density : 1.2
Density : 1.41(70%)	Solubility : The whole solution
log Kow : -0.24	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : Stability under normal conditions.
Possible hazardous reactions under specific conditions : May cause conflagration or explosion reaction.
Conditions to avoid : <ol style="list-style-type: none">1. To be exposed to sun and high temperature directly.2. Contaminants like as heavy metals, dust, catalytic metals and its' salt.3. Store flammable substances like as papers, woods,...etc.4. The vent of container is blocked.
Materials to avoid : <ol style="list-style-type: none">1. Contaminants like as heavy metals, dust, catalytic metals and its' salt.2. Store flammable substances like as papers, woods,...etc.
Hazardous decomposition products : May decompose to oxygen, water, temperature and pressure if meet high temperature, ignition or contaminants.



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Section 11 - Toxicological Information

Route of exposure : Inhalation, Skin, Eye, Ingestion
Symptoms : Stimulated sense, color of skin become white temporarily, red, blistering, stomach pain, vomiting, eye disease.
Immediate Toxicity : 1. Vapor and droplet may cause eyes, nose and throat suffocation. 2. Splash eyes may cause instant sever eye damage lead to blindness, some symptoms may be no symptoms and appear in a few weeks or long tome. 3. May cause color of skin become white temporarily, flush clean may cure after 2~3 hrs, if residual may cause red and blistering. 4. Ingestion may cause esophagus, stomach and throat damage and bleed. 5. Ingestion produce large oxygen to make esophagus, stomach dilative. <ul style="list-style-type: none">● LD₅₀(Rat ; Oral @ 50% H₂O₂): 910mg/kg● LD₅₀(Rat ; Skin @ 50% H₂O₂): 4,060mg/kg● LC₅₀(Rat ; Inhalation @ 100% H₂O₂ vapor): 1,438 ppm
Specific effects : There was an animal carcinogen report also lead to the mutation report of the test IARC be recognized as Group 3: not to judge the human carcinogen.

Section 12 - Ecological Information

Ecotoxicology : <ul style="list-style-type: none">■ LC₅₀(fish) : 155 mg/L 24 hrs■ EC₅₀(Aquatic Invertebrates) : 2.4mg/L 48 hrs■ Bioconcentration factor (BCF) : --
Persistence and degradability : <ul style="list-style-type: none">■ Half-Life (Air) : --■ Half-Life (Water surface) : --■ Half-Life (Groundwater) : --■ Half-Life (Soil) : --
Bioaccumulative potential : Expect no accumulation in the body.
Mobility in soil : --
Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal : 1. Under conditions that meet national and local regulations. 2. Consider to manage with Hygiene Bury method.

Section 14 - SDS Transport Information

UN classification number : 2014
Proper D.O.T Shipping Name : Hydrogen Peroxide <60%
Hazard Class : Category 5.1 Oxidant substances



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Packing Group : I
Marine pollution : No
Specific precautionary transport measures and conditions : --

Section 15 - Regulatory Information

Regulations :
1. Regulations for Labor Safety and Health Installations
2. Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials
3. Toxic Chemical Substances Hazard Prevention and Response Plan Regulations
4. Road Traffic Safety Regulations
5. Industrial Waste Storage and Disposal Regulations

Section 16 - Other Information

Literature references	1.KOSHA MSDS information service Http://www.kosha.net 2.Croner's: Dangerous Substances. 3.Sax's Dangerous Properties of Industrial Materials, 12th Ed. 4.National Institute of Technology and Evaluation, Japan http://www.safe.nite.go.jp 5.HSNO CCID, New Zealand http://www.ermanz.govt.nz/hs/compliance/chemicals.html 6.EU Directive 1999/45/EC 7.EU Directive 67/548/EEC 8.European Chemical Substances Information System http://ecb.jrc.ec.europa.eu/esis/ 9.EUN Recommendations on the Transport of Dangerous Goods–Model Regulations 16th Ed. 10.TOXNET, U.S. National Library of Medicine http://toxnet.nlm.nih.gov 11.ECOTOX Database, EPA http://cfpub.epa.gov/ecotox 12.IMDG Code 2008 edition (Amendment 34-08), IMO	
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