

Eye contact	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Make a sterile gauze bandage. Call a physician.
Ingestion	Give a lot of water to drink. Do not induce vomiting. Call a physician.

5. FIRE FIGHTING MEASURES

Extinguishing media	Jets of water, carbon dioxide, dry chemical powder or appropriate foam.
Special fire fighting procedures	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosions hazards	Emits toxic fumes under fire conditions. Contact with other material may cause fire. May accelerate combustion. Keep containers cool with water. Keep contaminated water off the sewage system.

6. ACCIDENTAL RELEASE MEASURES

Suitable extinguishing agents	Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete. Evacuate area. Don't breath vapour/spray.
Protective equipment	Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
Procedures	Take off product carefully perhaps with a clean PE-shovel. Avoid making dust. Clean the rest with a lot of water. Don't smoke. Keep away from fire. Don't mix with other chemicals.

7. HANDLING AND STORAGE

Handling	Open carefully. Never mix with other chemicals. Never give back product in original container.
Storage	Keep container tightly closed, Store in dry, dark and cool area under 25°C. Do not smoke.
Further informations	Keep away from combustible materials, heat, sparks and open flame. Do not store with: organic materials, strong oxidants, Ether, Acetone, heavy metal compounds, alcohol, reducing agent. Keep away from humidity.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION EQUIPMENT

Exposure limit information CAS-Nr. 7722-84-1	Hydrogen peroxide TRGS 900 (Nov. 1999) : 1 ppm (1,4 mg/m ³) TRGS 905 (march 2000) TRGS 906 (Dec. 1999) No. 63
Respiratory protection	appropriate approved respirator - do not breathe vapour
Hand protection	chemical-resistant gloves
Eye protection	safety goggles
Body protection	other protective clothing
Other protective equipment	Face shield (8-inch minimum). Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Keep away from combustible materials, heat, sparks and open flame. Safety shower

Hygiene measures and eye bath. Preventive skincare.
Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

9. PHYSIAL AND CHEMICAL PROPERTIES

Form powder or tablets
Colour white
Odour odourless

DATA RELEVANT FOR SAFETY:

pH-value	T=20°C	3-5,2 (0,5 – 10% in water)
Melting point		75-85 °C (dissolution!)
Boiling point		n. a.
Solubility in water	T=20°C	miscible
Density	T=20°C	about 650 g/l
Vapour pressure		n. a.
Solvent content		Recipe doesn't contain organic solvent

10. STABILITY AND REACTIVITY

Conditions to avoid	Keep away from combustible materials, humidity, heat, sparks and open flame.
Incompatibilities	Organic materials, strong oxidants, Ether, Acetone, heavy metal compounds, alcohol, reducing agent. Keep away dust, rust, ashes.
Hazardous decomposition products	Carbon monoxide, carbon dioxide
Other informations	Strong dissolution with temperature >60°C.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD ₅₀ (oral, rat) - Hydrogen peroxide	1232 mg/kg
LD ₅₀ (oral, rat) – Urea	14300 mg/kg (hydrogen peroxide 35%)

Irritation	lapin/skin: irritating (hydrogen peroxide <50%)
Sensitization	No sensitization known

Exposure	May be harmful by inhalation, ingestion or skin absorption. Material is extremely destructive to tissue of the mucous membranes and upper respiration tract, eyes and skin. Inhalation may result in spasm, inflammation and oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema.
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12. ECOLOGICAL DATA

Data on elimination (persistence and degradability)	biodegradable
Aquatic toxicity	Do not allow to enter sewage system, a harmful effect on aquatic organisms/activated sludge cannot be excluded in case of improper handling or disposal.
Other ecological information	Product of dissolution: water and oxygen
COD-value/BOD-value/AOX	-
General information	Follow local regulations. Do not allow the undiluted product to enter

sewerage systems, sewers, groundwater, rivers, soils, drinking water supplies.

13. DISPOSAL CONSIDERATIONS

Product

Recommendations Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations. Do not keep into toilettes.

European Waste Catalogues (94/3EC) 16 09 03* - peroxide

Contaminated packaging

Recommendations Can be used after cleaning
Cleaning with water

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE

Class 5.1
UN-Number 1511
Packing Group III
Shipping name UREA HYDROGEN PEROXIDE

Maritime transport IMDG/GGVSee

Class 8 - 8136
UN-Number 1511
Packing Group III
Chiffre 1 b
EMO-Nr. 5.1 -05
MFAG Nr. 735
Marine pollutant no
Shipping name UREA HYDROGEN PEROXIDE

Air transport ICAO-TI and IATA-DGR

Class 5.1
UN-Number 1511
Packing Group III
Shipping name UREA HYDROGEN PEROXIDE
Further information For all transports: dangerous label Nr. 5.1 + 8

15. REGULATORY INFORMATION

European information



C corrosive



O oxidising

R-phrases	R 8	Contact with combustible material may cause fire.
	R 34	Causes burns.
S-phrases	S 17	Keep away from combustible material.
	S 26	In case of contact with eyes, rinse immediately
	with	plenty of water and seek medical advice.
	S 36/37/39	Wear suitable protective clothing, gloves and
		eye/face protection.
	S 45	In case of accident or if you feel unwell, seek
	where	medical advice immediately. (Show the label
		possible).
Water hazard class	WGK 2:	polluting substance

16. OTHER INFORMATION

n. a.	not available
Date of issue	25.7.2001

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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