



SAFETY DATA SHEET

Safety Data Sheet according to Directive 2001/58/EC

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: POTASSIUM HYDROXIDE SOLUTION 500g/l

Product description Aqueous solution of inorganic compounds

Product Use Description: Chemical Specialty

Supplier Rohm and Haas Electronic Materials Schweiz GmbH
Grossmatte 4
Luzern CH-6014 Littau Switzerland
Telephone: +41 (0) 41-259-4444

Emergency telephone number
European Region +33 (0) 140025045

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a preparation.

Component	CAS-No.	EINECS-No.	Concentration	Classification
Potassium hydroxide	1310-58-3	215-181-3	25,0 - < 40,0 %	C R22, R35

3. HAZARDS IDENTIFICATION

Harmful if swallowed.
Causes severe burns.

4. FIRST AID MEASURES

Inhalation: Remove from exposure. If there is difficulty in breathing, give oxygen. Immediate medical attention is required

Skin contact: Immediately flush the skin with large quantities of water, preferably under a shower. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Continue washing for at least 20 minutes. Contaminated clothing should be washed or dry-cleaned before re-use. Immediate medical attention is required

Eye contact: Immediately flush the eye with plenty of water for at least 20 minutes, holding the eye open. Immediate medical attention is required

Ingestion: Do not induce vomiting. Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Immediate medical attention is required. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.

Notes to physician

Treat symptomatically. Treat skin burns conventionally.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, foam, dry chemical or carbon dioxide.

Specific hazards during fire fighting: This product may give rise to hazardous vapors in a fire.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: May emit corrosive vapor or mist.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective clothing.
Wear respiratory protection.

Environmental precautions

Prevent the material from entering drains or water courses.
Do not discharge directly to a water source.
Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling

Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Avoid breathing vapor. Keep container tightly closed.

Further information on storage conditions: Practice good personal hygiene to prevent accidental exposure.

Storage

Storage conditions: Store in original container. Storage area should be: cool dry well ventilated out of direct sunlight away from incompatible materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Potassium hydroxide	Rohm and Haas	Ceiling	2 mg/m ³
	SMAK	TWA	2 mg/m ³
	ACGIH	Ceiling	2 mg/m ³

Exposure controls

Eye protection: Chemical goggles and face shield.

Hand protection: Neoprene gloves. Other chemical resistant gloves may be recommended by your safety professional. Gauntlet sleeves.

Skin and body protection: rubber or neoprene apron

Respiratory protection: Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Engineering measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	clear
pH	> 14
Water solubility	Miscible
Relative density	1,26

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions	No unusual reactivity.
Conditions to avoid	high temperatures.
Materials to avoid	None known.

Hazardous decomposition products None known.,

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Component: **Potassium hydroxide**
Acute oral toxicity LD50 rat 365 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

Potassium hydroxide

Ecotoxicity effects

Toxicity to fish TLm Mosquito fish (Gambusia affinis) 24 h
 80 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Prevent the material from entering drains or water courses.
 Do not discharge directly to a water source.
 Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Disposal

Dispose in accordance with all local, state (provincial), and federal regulations.
 Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way. Do not remove label until container is thoroughly cleaned.

14. TRANSPORT INFORMATION

Classification for ROAD and Rail transport (ADR/RID):

Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
UN-No	UN 1814
Class	8
Packing group	II

Classification for SEA transport (IMO-IMDG):

Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
UN-No	UN 1814
Class	8

Packing group II

Classification for AIR transport (IATA/ICAO):

Consult current IATA regulations prior to shipping by air.

15. REGULATORY INFORMATION

Label

Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

Hazard symbol and Indication of danger

C Corrosive

Contains: Potassium hydroxide

R-phrase(s)

R22 Harmful if swallowed.

R35 Causes severe burns.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S60 This material and its container must be disposed of as hazardous waste.

Wassergefährdungsklasse (Deutschland)

WGK 1: slightly water endangering

Switzerland. Ordinance relating to Environmentally Hazardous Substances

BAG-T Nr.: 42525

Switzerland. Federal Health Agency, Giftliste

Swiss Poison Class 2

EU. EINECS (EINECS) This product satisfies all the requirements of the European Inventory of Existing Chemical Substances (EINECS).

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

List of relevant R-phrases

R22 Harmful if swallowed.
 R35 Causes severe burns.

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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