

1. Product and Company Identification

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Product Name: Potassium Hydroxide 30%
Part Number: RXSOL-20-1525-220

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight	Formula
POTASSIUM HYDROXIDE 30% SOLUTION	1310-58-3	215-181-3	30%	KOH

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Precautionary statements	P234 Keep only in original packaging. P260 Do not breathe dust. P264 Wash hand thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P317 IF SWALLOWED: Get medical help. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P361 + P354 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P354 + P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316 Get emergency medical help immediately. P330 Rinse mouth. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage. P405 Store locked up. P406 Store in corrosive resistant/ container with a resistant inner liner
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	No data available

4. First Aid Measures

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General advice	Show this material safety data sheet to the doctor in attendance
If inhaled	Move to fresh air in case of accidental inhalation of dust or mists. Keep

Eye Contact	patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus
Swallowed	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Skin Contact	After swallowing immediately make victim drink water (two glasses at most). Consult a physician.
Inhalation	No data available
Ingestion	No data available
Most important symptoms and effects, both acute and delayed	Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in physician. Do not attempt to neutralize.
Indication of any immediate medical attention and special treatment needed	The most important known symptoms and effects are described in section 2.2 and section 11
	No data available

5. Fire-fighting Measures

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Flammability	No data available
Suitable extinguishing media	In adaption to materials stored in the immediate neighborhood.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Non-combustible. Ambient fire may liberate hazardous vapors. The following may develop in event of fire: potassium oxides
Further information	Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.
Hazardous combustion products	No data available
Advice for firefighters	Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
Protective Equipment	No data available
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police
Methods and materials for containment and cleaning	Spillage soak up with inert absorbent material (e.g. sand, silica gel). Prevent liquid entering sewers, basements and workpits. Transfer to covered drums. Dispose of promptly.
Reference to other sections	For disposal see Section 13.

7. Handling and Storage

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Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition
Incompatible materials	No data available

Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Advice on safe handling	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.
Conditions for safe storage including any incompatibilities	No data available
Storage conditions	Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Keep away from combustible materials and sources of ignition.
Storage class	Storage class (TRGS 510)2A Gases
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

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Exposure controls	Personal protective equipment
Engineering Control	The product should only be used in ventilation hoods and fans.
Eye/face protection	Goggles giving complete protection to eyes
Body Protection	Flame retardant antistatic protective clothing.
Skin protection	Chemical resistant apron / corrosive protective clothing, heavy duty work shoes. Handle with gloves - Full contact wears gloves from nitrile rubber material. - Splash contact wears gloves from nitrile rubber material. The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter P2 (EN 141 or EN 14387).
Other Protection Measure	No data available

9. Physical and chemical properties

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Physical state	Liquid
Colour	Colorless
Odour	Odorless
Odor Threshold	No data available
pH	>13.5 at 20°C
Melting Point	No data available
Boiling Point	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Viscosity	No data available
Density	1.28 g/ml at 20°C
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	Soluble at 20°C

Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	Exothermic dissolution process with water.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Risk of explosion in contact with fluorine, aluminium hexachloroplatinate/heat, bromoform + crown ether, but-2-ene-1,4-diol (heat), calcium powder, calcium carbide/chlorine, chlorine dioxide, cyanogen azide, 1,2-dichloroethene, magnesium, sodium azide + benzoyl chloride, nitrobenzene, nitroethane, nitromethane, nitroparaffines, N-nitrosomethylurea, phosphorus, nitrogen trichloride, tetrahydrofuran (peroxide containing), 2,4,6-trinitrotoluene, zinc, tin. The substance can react dangerously with acids, water, hydrogen peroxide, acetonitrile, acrolein, aldehydes, aluminium carbide, ammonium salts/ammonia, chloroform/methanol, cyclopentadiene, acetic acid, germanium, halogenated hydrocarbons, iodine pentafluoride, potassium peroxodisulfate, cresols, maleic anhydride, itrophenol, phosphorus trioxide, hydrogen sulfide, tetrafluoropropanol, trichloroethene, vinyl acetate, sugars (reducing)
Conditions to avoid	No data available
Incompatible materials	For incompatible material see Section 10.3.
Hazardous decomposition products	Potassium oxides (Hazardous decomposition products from under fire condition).

11. Toxicological information

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Acute toxicity	Absorption Symptoms: burns of mouth, pharynx, mucous membranes, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. Acute inhalation toxicity Symptoms: burns of mucous membranes.
Skin corrosion/irritation	Burns
Serious eye damage/irritation	Burns. Risk of blindness.
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Additional Information	Systemic effects Collapse, death. The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

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Persistence and degradability	No data available
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very

Endocrine disrupting properties	bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher
Other adverse effects	Harmful effect on aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants. Do not allow to enter waters, waste water or soil.

13. Disposal considerations

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Product	There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.
Contaminated packaging	Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.
Waste treatment Method	No data available

14. Transport information

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UN number	ADR/RID:1814	IMDG:1814	IATA:1814
UN proper shipping name	ADR/RID:POTASSIUM HYDROXIDE, SOLUTION	IMDG:POTASSIUM HYDROXIDE, SOLUTION	IATA:POTASSIUM HYDROXIDE, SOLUTION
Transport hazard class(es)	ADR/RID:8	IMDG:8	IATA:8
Packaging group	ADR/RID:II	IMDG:II	IATA:II
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No
Special precautions for user	No data available		
Further information	No data available		

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for
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