

1. Product and Company Identification

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Product Name Potassium tert-butoxide

Part Number RXSOL-19-6604-100

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Whight	Formula
Potassium tert-butoxide	865-47-4	212-740-3	112,21 g/mol	C ₄ H ₉ .KO

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H228 Flammable solid. H252 Self-heating in large quantities; may catch fire. H260 In contact with water releases flammable gases which may ignite spontaneously. H314 Causes severe skin burns and eye damage.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P231 + P232 Handle and store contents under inert gas. Protect from moisture. P260 Do not breathe dust. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	None
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

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General advice	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air. Call in physician.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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Suitable extinguishing media	Water Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	Foam Water
Special hazards arising from the substance or mixture	Carbon oxides Potassium oxides Combustible. May not get in touch with: Water Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
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. Take precautionary measures against static discharge.
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	Keep workplace dry. Do not allow product to come into contact with water.
Storage conditions	Tightly closed. Keep away from heat and sources of ignition. Never allow product to get in contact with water during storage. Air and moisture sensitive. Handle and store under inert gas.
Storage class	Storage class (TRGS 510) 4.2 Pyrophoric and self-heating hazardous materials
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

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Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
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Body Protection	Flame retardant antistatic protective clothing.
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
Respiratory protection	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented
Control of environmental exposure	Do not let product enter drains.

9. Physical and chemical properties

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Physical state	Solid
Colour	Light yellow
Odour	Odorless
Odor Threshold	Not Applicable
pH	4 - 10 at 200 g/l at 20 °C
Melting Point	256 - 258 °C - dec.
Boiling Point	210 °C - lit.
Flash Point	152 °C
Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 1
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	The substance or mixture is classified as self heating with the category 2
Decomposition temperature	300 °C Decomposition energy (mass): 700 kJ/kg Method: OECD Test Guideline 113
Vapour pressure	1 hPa at 220 °C
Viscosity	No data available
Density	1,19 g/cm ³ at 20 °C - OECD Test Guideline 109
Relative Density	No data available
Partition coefficient	Log Pow -0,82 at 25 °C - Bioaccumulation is not expected.
Explosive properties	No data available
Solubility	at 20 °C Hydrolysis, (rigorous decomposition)
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust
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Chemical stability	explosion potential may generally be assumed. Reacts violently with water sensitive to moisture
Possibility of hazardous reactions	Risk of ignition or formation of inflammable gases or vapours with: Water Acetone Alcohols Chloroform dichloromethane acetic acid ethanol Esters Methanol sulfuric acid halogens acids Exothermic reaction with: Halogenated hydrocarbon
Conditions to avoid	Moisture.
Incompatible materials	Water, acids, Reducing agents, Oxygen, Alcohols, Chlorinated solvents, Halogens, Ketones
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - 690 mg/kg (OECD Test Guideline 401) Remarks: Extremely corrosive and destructive to tissue
Skin corrosion/irritation	Skin - Rabbit Result Causes severe burns. - 3 min (OECD Test Guideline 404)
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	Maximization Test - Guinea pig Not a skin sensitizer. (OECD Test Guideline 406)
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	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. burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

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 to bacteria	No data available
Toxicity to algae	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 bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	Assessment : 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	Product reacts with water. Harmful effect due to pH shift. Discharge into the environment must be avoided.

13. Disposal considerations

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Waste treatment Method	No data available
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14. Transport information

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UN number	ADR/RID:3131	IMDG:3131	IATA:3131
UN proper shipping name	ADR/RID:WATER-REACTIVE SOLID, CORROSIVE, N.O.S. (potassium tert-butanolate)	IMDG:WATER-REACTIVE SOLID, CORROSIVE, N.O.S. (potassium tert-butanolate)	IATA:WATER-REACTIVE SOLID, CORROSIVE, N.O.S. (potassium tert-butanolate)
Transport hazard class(es)	ADR/RID:4.3 (8)	IMDG:4.3 (8)	IATA:4.3 (8)
Packaging group	ADR/RID:I	IMDG:I	IATA:I
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No
Special precautions for user	Tunnel restriction code (B/E)		
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	Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment has been carried out

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 we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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