Material Safety Data Sheet

Potassium Superoxide (RXSOL-19-3786-051)

1. Product and Company Identifaction

Product Name	Potassium Superoxide
Part Number	RXSOL-19-3786-051

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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Email	mail@rxmarine.com
Website	www.rxmraine.comA

2. Composition / informationon ingredients

Chemical Name	CAS No	Weight
Potassium superoxide	12030-88-5	100

3. Hazards Identification

Classification	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Label Elements	
Signal Word	Danger
Hazard Statements	May intensify fire; oxidizer Causes severe skin burns and eye damage May cause respiratory irritation

Precautionary Statements	**Prevention** Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles **Response** Immediately call a POISON CENTER or doctor/physician **Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing **Skin** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse **Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. ContinuerinsingIngestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting **Fire** In case of fire: Use CO2, dry chemical, or foam for extinction **Storage** Store locked up Store in a well-ventilated place. Keep container tightly closed **Disposal** Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	Reacts violently with water

4. First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attentionisrequired.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminatedclothes and shoes. Call a physician immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physicianor poison control center immediately. Do not use mouth-to-mouth method if victimingestedor inhaledthe substance; give artificial respiration with the aid of a pocket mask equippedwithaone-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastriclavage or emesis is contraindicated. Possible perforation of stomach or esophagusshouldbe investigated: Ingestion causes severe swelling, severe damage to the delicatetissueand danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

Suitable extinguishing media	Carbon dioxide (CO 2). Dry chemical. Chemical foam. CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable extinguishing media	No information available
Flash Point	No information available
Method	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	The product causes burns of eyes, skin and mucous membranes. Reacts violently with water. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products	Potassium oxides.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

6. Accidental Release Measures

Personal precautions	Use personal protective equipment as required. Evacuate personnel to safe areas. Avoidcontact with skin, eyes or clothing.
Environmental Precautions	Should not be released into the environment. Do not allow material to contaminategroundwater system.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Donot expose spill to water. Soak up with inert absorbent material. Keep in suitable, closedcontainers for disposal. Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact withwater. Handle under an inert atmosphere. Keep away from clothing and other combustiblematerials.
Storage	Corrosives area. Keep away from water or moist air. Keep containers tightly closedinadry,cool and well-ventilated place. Do not store near combustible materials. Storeunder aninert atmosphere. Protect from moisture. Incompatible Materials. Strong oxidizingagents.Strong reducing agents. Combustible material.

8. Exposure controls and personal protection

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposurelimitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstationlocation. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as describedbyOSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or EuropeanStandardEN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical state	Solid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	400 °C / 752 °F
Boiling Point/Range	No infomation available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available

Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Reacts with water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	K O2
Molecular Weight	71.1

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Reacts violently with water. Oxidizer: Contact with combustible/organic material maycausefire.
Conditions to avoid	Protect from water. Incompatible products. Combustible material. Excess heat. Exposuretomoist air or water. Exposure to moisture.
Incompatible materials	Strong oxidizing agents, Strong reducing agents, Combustible material
Hazardous Decomposition Products	Potassium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing. Reacts violently with water.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	
Toxicologically Synergistic	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Causes burns by all exposure routes
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as acarcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Potassium superoxide	12030-88-5	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available
STOT - single exposure	Respiratory system
STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestioncausessevere swelling, severe damage to the delicate tissue and danger of perforation
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity	Reacts with water so no ecotoxicity data for the substance is available.
Persistence and Degradability	Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available
Mobility	Is not likely mobile in the environment.

13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classifiedasahazardous waste. Chemical waste generators must also consult local, regional, andnational hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN2466
Proper Shipping Name	POTASSIUM SUPEROXIDE
Hazard Class	5.1
Packing Group	I
TDG	
UN-No	UN2466
Proper Shipping Name	POTASSIUM SUPEROXIDE
Hazard Class	5.1
Packing Group	I
IATA	
UN-No	UN2466
Proper Shipping Name	POTASSIUM SUPEROXIDE
Hazard Class	5.1
Packing Group	I
IMDG/IMO	
UN-No	UN2466
Proper Shipping Name	POTASSIUM SUPEROXIDE
Hazard Class	5.1
Packing Group	I

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA RegulatoryFlags
Potassium superoxide	12030-88-5	X	ACTIVE	-

International Inventories: Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Potassium superoxide	12030-88-5	-	X	234-746-5	X	X	X	-	-	KE-29204

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium superoxide	-	X	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ)	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of HazardousSubstances (RoHS)
Potassium superoxide	12030-88-5	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Potassium superoxide	12030-88-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

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 weassume 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 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.