Material Safety Data Sheet

RXSOL ORG CAK 259 (RXSOL-10-3245-025)

1. Product and Company Identifaction

Product Name	RXSOL ORG CAK 259
Part Number	RXSOL-10-3245-025

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Substances

Hazardous Component(s)	CAS Number	Percentage
Potassium hydroxide	1310-58-3	10 - 30
Surfactant	Proprietary	1 - 5
Surfactant	Proprietary	1 - 5

Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

3. Hazards Identification

HAZARD CLASS	HAZARD CATEGORY
CORROSIVE TO METALS	1
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

Precautionary Statements

Prevention	Keep only in original packaging. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage	Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

4. First Aid Measures

Inhalation	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact	Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.
Eye contact	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion	Get immediate medical attention. Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Symptoms	See Section 11.

5. Fire-fighting Measures

Extinguishing media	Use media appropriate for surrounding material.
Special firefighting procedures	Wear self-contained breathing apparatus. Wear full protective clothing.
Unusual fire or explosion hazards	This product is an aqueous mixture which will not burn.
Hazardous combustion products	Irritating and toxic gases or fumes may be released during a fire.

6. Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions	Prevent further leakage or spillage if safe to do so. Wear suitable protective clothing, gloves and eye/face protection. Do not allow product to enter sewer or waterways.
Clean-up methods	Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mists or aerosols of this product. NEVER ADD WATER TO PRODUCT. For dilutions, add product slowly to water while stirring. Use caution; heat may be generated. For industrial use only.
Storage	For safe storage, store between 40 °F (4.4 °C) and 100 °F (37.8 °C) Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Thaw and mix thoroughly if frozen.

8. Exposure controls and personal protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Potassium hydroxide	2 mg/m3 Ceiling	None	None	None
Surfactant	None	None	None	None
Surfactant	None	None	None	None

Engineering controls	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
Respiratory protection	If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
Eye/face protection	Wear chemical goggles; face shield (if splashing is possible).
Skin protection	Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended

9. Physical and chemical properties

Physical state	Liquid
Colour	Yellow

Odor	Sweet
Odor threshold	Not available.
pH	> 12.5
Vapor pressure	Not determined
Boiling point/range	> 100 °C (> 212°F)
Melting point/ range	Not determined
Specific gravity	1.27 - 1.30 at 60 °F (15.56 °C)
Vapor density	Not determined
Flash point	Not applicable
Flammable/Explosive limits - lower	Not applicable
Flammable/Explosive limits - upper	Not applicable
Autoignition temperature	Not applicable
Flammability	Not applicable
Evaporation rate	Not determined
Solubility in water	Complete
Partition coefficient (n-octanol/water)	Not determined
VOC content	Not determined
Viscosity	Not available.
Decomposition temperature	Not available.

10. Stability and reactivity

Reactivity	Stable at normal conditions
Hazardous reactions	Will not occur
Hazardous decomposition products	Irritating and toxic gases or fumes may be released during a fire
Incompatible materials	Adding water to this product may cause localized overheating and splattering.
Reactivity	This product reacts with acids.
Conditions to avoid	Store away from incompatible materials

11. Toxicological information

Relevant routes of exposure	Skin, Inhalation, Eyes
Potential Health Effects/Symptoms	
Inhalation	Mists, vapors or liquid may cause severe irritation or burns.
Skin contact	Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.
Eye contact	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Potassium hydroxide	Oral LD50 (Rat) = 273 mg/kg Oral LD50 (Rat) = 1.23 g/kg	Corrosive, Irritant
Surfactant	None	Allergen, Irritant, Respiratory
Surfactant	None	No Records

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Potassium hydroxide	No	No	No
Surfactant	No	No	No
Surfactant	No	No	No

12. Ecological information

Ecological information	Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

13. Disposal considerations

Information provided is for unused product only

Recommended method of disposal	Follow all local, state, federal and provincial regulations for disposal. This product contains a chelating agent.
Hazardous waste number	This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002).

14. Transport information

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name	Potassium hydroxide, solution
Hazard class or division	8
Identification number	UN 1814
Packing group	II
DOT Hazardous Substance(s)	Potassium hydroxide

International Air Transportation (ICAO/IATA)

Proper shipping name	Potassium hydroxide, solution
Hazard class or division	8
Identification number	UN 1814
Packing group	II

Water Transportation (IMO/IMDG)

Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Hazard class or division	8
Identification number	UN 1814
Packing group	II

15. Regulatory information

United States Regulatory Information

TSCA 8 (b) Inventory Status	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory
TSCA 12 (b) Export Notification	None above reporting de minimis
CERCLA/SARA Section 302 EHS	None above reporting de minimis
CERCLA/SARA Section 311/312	Immediate Health, Delayed Health
CERCLA/SARA Section 313	None above reporting de minimis. CERCLA Reportable quantity: Potassium hydroxide (CAS# 1310-58
CERCLA Reportable quantity	Potassium hydroxide (CAS# 1310-58-3) 1,000 lbs. (454 kg)
California Proposition 65	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm
Canada Regulatory Information	
CEPA DSL/NDSL Status	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. 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.

Other Information

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