

1. Product and Company Identification

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Product Name

BenzalKonium Chloride BKC

Part Number

RXSOL-15-1599-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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Website www.rxmarine.com

2. Composition / Information on ingredients

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Name of Substance	Cas Number
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N-Alkyldimethylbenzyl ammonium chloride	8001-54-5
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Water	7732-18-5
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Proprietary

3. Hazards Identification

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Signal Word

Hazard Statements

Precautionary statements - prevention

Precautionary statements - response

Warning

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors
thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection

Use only outdoors or in a well-ventilated area

Immediately call a POISON CENTER or doctor/pharmacist if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing

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. Continue rinsing.

Ingestion

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

4. First Aid Measures

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Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove clothing and gloves, including the inside, before re-dressing.
Eye Contact	Rinse immediately with plenty of water, also under running water. If irritation persists, medical attention is required. Keep eye wide open while irrigating.
Inhalation:	Do not use mouth-to-mouth method if victim ingested or inhaled the substance. With the aid of a pocket mask equipped with a one-way valve, provide normal respiration. Remove from exposure, lie down. Call a physician immediately for respiration.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to someone who is unconscious or who is having difficulty breathing. Call a physician immediately.
Most important symptoms/effects	Causes burns by all exposure routes. Ingestion causes severe irritation and danger of perforation.
Notes to Physician	Treat symptomatically

5. Fire-fighting Measures

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Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical extinguishers. Do not use to fire with water spray.
Unsuitable extinguishing media	No Information Available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapors. Eyes, skin and mucous membranes. Do not allow contact with skin or clothing.
Hazardous Combustion Products	Thermal decomposition can lead to release of irritating gases and vapors. Precautions for Firefighters As in any fire, wear self-contained breathing apparatus (SCBA) (MSHA/NIOSH (approved or equivalent) and full protective clothing. Avoid release of irritating gases and vapors.
Protective Equipment and Precautions for Firefighters	Use personal protective equipment as required. Avoid contact with skin and eyes. Ventilation. Keep people away from and upwind of fire.
Further Information	Do not flush into surface water or sanitary sewer system. Prevent product from entering drainage system. Spillages cannot be contained.

6. Accidental Release Measures

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Spillage	Absorb with an inert material and put the spillage in a container for disposal. Flammable liquid. Keep away from heat. Keep away from open flames. Without risk. Absorb with DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined spaces. If product is not present at a concentration level above TLV, no action is required. Notify authorities.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation.

Enviromental Precaution

Methods and materials for containment and cleaning

Take precautionary measures against static discharges.
Should not be released into the environment. See Section 9.
Avoid release to the environment. Collect spillage. Do not enter sewerage system.
Soak up with inert absorbent material. Keep in suitable container away from sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

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Handling

Wear personal protective equipment. Do not get in eyes, on skin or clothing. Use chemical fume hood. Do not breathe vapors or spray mist. Avoid flames, hot surfaces and sources of ignition. Use only non-flammable solvents. Avoid vapors by static electricity discharge, all metal parts of equipment should be grounded. Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated area away from sources of ignition. Flammables area. Corrosives area.

Hygiene measures

Immediately change contaminated clothing. Apply preventive measures after working with substance.

8. Exposure controls and personal protection

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Engineering Control

Provide exhaust ventilation or other engineering controls to keep exposure to vapors below their respective threshold limit value. Ensure that controls are proximal to the work-station location.

Personal Protection

Eye/face Protection : Wear appropriate protective equipment as described by OSHA's eye and face protection regulation. European Standard EN166.

Skin and body protection : Wear appropriate protective clothing to prevent exposure. Long sleeved clothing.Flame retardant antistatic clothing.

Respiratory Protection : Follow the OSHA respirator regulations in the European Standard EN 149. Use a NIOSH/MSHA or equivalent approved respirator if exposure limits are exceeded or if irritation or other symptoms develop.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practices.

Exposure Limits

TWA: 100 (ppm) [Canada] TWA: 435 (mg/m3) [Canada]
ACGIH (TLV) [United States]
TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States]
Do not exceed acceptable exposure limits.



Gloves Suit

9. Physical and chemical properties

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Form	Liquid
Colour	Colourless
Odour	sweet, Characteristic
Odor Threshold	No Information Available
pH	Not Applicable
Melting Point	-25 °C / -13 °F
Boiling Point	143 - 145 °C / 289.4 - 293 °F
Flash Point	31 °C / 87.8 °F
Evaporation Rate	0.7
Flammability (solid, gas)	Not Applicable
Explosive limits	Upper 6.7 % Lower 0.9 %
Vapour pressure	No information available
Vapour Density	3.7
Secific Gravity	0.878
Decomposition Temperature	No information available
Partition coefficient	No data available
Autoignition Temperature	465 °C / 869 °F
Solubility in Water	Not Soluble
Viscosity	No information available
Molecular Formula	C8 H10
Molecular Weight	106.17

10. Stability and reactivity

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Recativity Hazard	None known, based on information available
Stability	Product is stable.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Strong oxidizing agents, Strong acids, Strong reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2),
Hazardous Polymerization	Hazardous polymerization does not occur. Hazardous Reactions None under normal processing

11. Toxicological information

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Acute oral toxicity	Symptoms: Gastrointestinal disturbance, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration
Acute dermal toxic	Acute toxicity estimate : 1,134 mg/kg
Skin corrosion	Drying-out effect resulting in rough and chapped skin. Mixture causes skin irritation.
Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. Can be absorbed through skin. Eyes: Causes eye irritation. Vapor causes respiratory tract and mucous membrane irritation.
Special Remarks on Chronic Effects on Humans	Detected in maternal milk in human. Passes through the placental barrier in animal. Embryotoxic and/or foetotoxic. May cause adverse reproductive effects (male and female fertility (spontaneous abortion and fetotoxicity) and birth defects) and data.
Further information After absorption:	Headache, somnolence, Dizziness, euphoria, agitation, spasms, narcosis Effect potentiated by: ethanol Damage to: nervous system, Liver

12. Ecological information

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Toxicity to Fish	No information available.
COD and BOD 5	Not Available
Products of Biodegradation:	No information available.
Mobility in soil	No information available.
Results of PBT and vPvB assessment	Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, a PBT/vPvB assessment was not conducted.
Other adverse effects	Additional ecological information Discharge into the environment must be avoided.

13. Disposal considerations

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Waste treatment Method	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original packaging with other waste. Handle uncleaned containers like the product itself
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14. Transport information

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DOT

UN Number	UN1307
Proper shipping name	XYLENE
Hazard Class	3
Packing group	III

TDG

UN	Number	UN1307
	Proper shipping name	XYLENE
	Hazard Class	3
	Packing group	III

IATA

UN	Number	UN1307
	Proper shipping name	XYLENE
	Hazard Class	3
	Packing group	III

IMDG/IMO

UN	Number	UN1307
	Proper shipping name	XYLENE
	Hazard Class	3
	Packing group	III

15. Regulatory information

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Federal and State Regulation	Connecticut hazardous material survey.: Xylenes Illinois acutely hazardous substances: Xylenes Rhode Island Pennsylvania RTK: Xylenes Minnesota: Xylenes Michigan critical material: Xylenes Massachusetts RTK: New Jersey: Xylenes New Jersey spill list: Xylenes Louisiana Director's List of Hazardous Substances: Xylenes 302/304/311/312 hazardous chemicals: Xylenes SARA 302/303 reporting: Xylenes CERCLA: Hazardous substances.: Xylenes
Other Regulation	OSHA: Hazardous by definition of Hazard Communication EINECS: This product is on the European Inventory of Existing Substances
WHMIS (Canada)	CLASS B-2: Flammable liquid with a flash point low to medium Material causing other toxic effects (VERY TOXIC).

HMIS

Health Hazard	: 3
Fire Hazard	: 3
Reactivity	: 0
Personal Protection	: H

Fire :

Health Hazard	: 3
Fire Hazard	: 3
Reactivity	: 0
Specific Hazard	: ..

16. Other informationwww.rxmarine.com

Other Information

The information above is believed to be accurate and is available to us. However, we make no warranty of accuracy, implied, with respect to such information, and we should make their own investigations to determine its accuracy for particular purposes. In no event shall we be liable for any damages, for lost profits or any special, indirect, incidental, or consequential damages arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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