

1. Product and Company Identification

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Product Name Cumene
Part Number RXSOL-19-1281-200

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Weight	Formula
Cumene for synthesis	98-82-8	202-704-5	120,2 g/mol	C ₉ H ₁₂

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H335 May cause respiratory irritation. H350 May cause cancer. H411 Toxic to aquatic life with long lasting effects
Precautionary statements	P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P273 Avoid release to the environment. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
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	Show this material safety data sheet to the doctor in attendance
If inhaled	After inhalation fresh air. Immediately call in physician.
Eye Contact	Rinse out with plenty of water. Remove contact lenses
Swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	No data available
Ingestion	No data available

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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Flammability

No data available

Suitable extinguishing media

Carbon dioxide (CO₂) Foam Dry powder

Unsuitable extinguishing media

No data available

Special hazards arising from the substance or mixture

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Hazardous combustion products

No data available

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

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. 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.

Spillage

No data available

Personal Protection

No data available

Environmental Precaution

Do not let product enter drains. Risk of explosion.

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 with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area

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.

Incompatible materials

No data available

Hygiene measures

No data available

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

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510 3 Flammable liquids)

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are

8. Exposure controls and personal protectionwww.rxmarine.comExposure controls
Engineering Control
Eye/face protectionPersonal protective equipment
No data available
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glassesBody Protection
Skin protectionFlame retardant antistatic protective clothing.
This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min Material tested: Butoject® (KCL 898)

Respiratory protection

Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds 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.

Other Protection Measure

No data available

9. Physical and chemical propertieswww.rxmarine.comPhysical state
Colour
Odour
Odor Threshold
pH
Melting Point
Boiling Point
Flash Point
Evaporation Rate
Flammability (solid, gas)
Explosive limits
Upper/lower flammability or explosive limits
Autoignition temperature
Decomposition temperature
Vapour pressure
Viscosity
Density
Relative Density
Specific Gravity
Partition coefficientLiquid
Colorless
Aromatic
No data available
7,0
96,0 °C
152,0 - 154,0 °C at 1.013,25 hPa
31,0 °C - closed cup
No data available
No data available
No data available
Upper explosion limit 6,0 %(V) Lower explosion limit 0,9 %(V)
425,0 °C
No data available
11 hPa at 20,0 °C
Dynamic 0,79 mPa.s at 20 °C
0,86 g/cm³
No data available
No data available
Log Pow 3,55 at 23 °C - Bioaccumulation is not expected

Explosive properties	No data available
Solubility	ca.0,05 g/l at 25 °C - slightly soluble
Ignition temperature	No data available
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	Vapor/air-mixtures are explosive at intense warming.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Exothermic reaction with Strong oxidizing agents Nitric acid fuming sulfuric acid Risk of ignition or formation of inflammable gases or vapours with Oxidizing agents
Conditions to avoid	Heating.
Incompatible materials	Rubber
Hazardous product decomposition	No data available

11. Toxicological information

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Acute toxicity	Symptoms gastric pain, Vomiting Symptoms: mucosal irritations, Cough, Shortness of breath, Headache, Nausea, Vomiting, Possible damages, damage of respiratory tract
Skin corrosion/irritation	Skin - Rabbit Result No skin irritation (OECD Test Guideline 404) Drying-out effect resulting in rough and chapped skin
Serious eye damage/irritation	Eyes - Rabbit Result No eye irritation - 72 h (OECD Test Guideline 405)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result negative (OECD Test Guideline 406)
Carcinogenicity	Presumed to have carcinogenic potential for humans
Germ cell mutagenicity	Test Type Mutagenicity (mammal cell test) chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type Ames test Test system: S. typhimurium Metabolic activation with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type unscheduled DNA synthesis assay Test system rat hepatocytes Metabolic activation without metabolic activation Method: OECD Test Guideline 482 Result: negative Test Type Micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route inhalation (gas) Method: OECD Test Guideline 474 Result: negative Test Type Micronucleus test Species: Rat Cell type: Bone marrow Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: Positive results were obtained in some in vivo tests.
Reproductive toxicity	No data available
Specific target organ toxicity- single exposure	Inhalation - May cause respiratory irritation. - Respiratory Tract Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
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. narcosis, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Damage to the lungs., Liver injury may occur., Kidney injury may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After uptake of large quantities: somnolence Dizziness narcosis Effect potentiated by: ethanol

12. Ecological information

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Persistence and degradability	Biodegradability aerobic - Exposure time 20 d Result: 70 % - Readily biodegradable. (ECHA)
Toxicity to fish	Flow-through test LC50 - Cyprinodon variegatus (sheepshead minnow) - 4,7 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 2,14 mg/l - 48 h (OECD Test Guideline 202)
Toxicity	No data available
Toxicity to bacteria	Static test EC50 - activated sludge - > 2.000 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to algae	Static test ErC50 - Desmodesmus subspicatus (green algae) - 2,01 mg/l - 72 h (OECD Test Guideline 201)
Mobility in soil	No data available
Results of PBT av PvB 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	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	Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of drinking- water supplies. Discharge into the environment must be avoided. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

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Product	No data available
Contaminated packaging	No data available
Waste treatment Method	No data available

14. Transport information

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UN number	ADR/RID:1918 IMDG:1918 IATA:1918
UN proper shipping name	ADR/RID:ISOPROPYLBENZENE IMDG:ISOPROPYLBENZENE IATA:ISOPROPYLBENZENE
Transport hazard classess	ADR/RID:3 IMDG:3 IATA:3
Packaging group	ADR/RID:III IMDG:III IATA:III
Environmental hazards	ADR/RID:Yes IMDG Marine pollutant: Yes IATA: No
Special precautions for user	Tunnel restriction code (D/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	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

16. Other information

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Other Information

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