

1. Product and Company Identification

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Product Name 1-Hexene
Part Number RXSOL-19-1318-210

Company Details:

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

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Chemical Name	Cas No	Molecular weight
1-Hexene	592-41-6	>95

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	Highly flammable liquid and vapor May be fatal if swallowed and enters airways May cause drowsiness or dizziness
Precautionary statements	Prevention Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician 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

Repeated exposure may cause skin dryness or cracking Toxic to aquatic life with long lasting effects.

Other hazards

4. First Aid Measures

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Inhalation

Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration. Risk of serious damage to the lungs (by aspiration).

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Ingestion

Aspiration hazard. Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms and effects, both acute and delayed

Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

5. Fire-fighting Measures

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Suitable extinguishing media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Unsuitable extinguishing media

Water may be ineffective

Flash Point -26 °C / -14.8 °F

Method - CC (closed cup)

Explosion Limits

Upper - 6.90 vol %

Lower - 1.20 vol %

Sensitivity to Mechanical Impact - No information available

Sensitivity to Static Discharge - No information available

Special hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flashback. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Environmental Precaution

Do not flush into surface water or sanitary sewer system

Methods and materials for containment and cleaning

Remove all sources of ignition. Soak up with inert absorbent material. Keep insuitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

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Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Keep under nitrogen. Flammables area. Incompatible Materials. Strong oxidizing agents. Acids. Peroxides

8. Exposure controls and personal protection

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Engineering Control

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

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 European Standard EN 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

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Physical state

Liquid

Colour

Colorless

Odor

Characteristic

pH

No information available

Melting point/freezing point

-140 °C / -220 °F

Initial boiling point and boiling range

62 - 65 °C / 143.6 - 149 °F @760 mmHg

Upper/lower flammability or explosive limits

Upper 6.90 vol %

Autoignition temperature

Lower 1.20 vol %

265 °C / 509 °F

Viscosity

0.34 cSt at 40 °C

Flash Point

-26 °C / -14.8 °F

Relative Density

No data available

Solubility

Insoluble in water

10. Stability and reactivity

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Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	No data available
Conditions to avoid	Air Exposure to moisture. no information available
Incompatible materials	No data available
Hazardous product decomposition	In the event of fire: see section 5

11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 5.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse Result: negative (OECD Test Guideline 429)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Irreversible effects on the eye
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella 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: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Micronucleus test Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative Test Type: Micronucleus test Species: Rat Application Route: Oral Method: OECD Test Guideline 474 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: aluminium hydroxide Species: Rat Application Route: Oral Remarks: Cytogenetic analysis

12. Ecological information

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Toxicity	Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 87,5 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 200 mg/l - 48 h (OECD Test Guideline
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Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (microalgae) - 0,24 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria static test EC50 - activated sludge - > 200 mg/l - 3 h (OECD Test Guideline 209)

Toxicity to fish(Chronic toxicity) semi-static test NOEC - Salvelinus fontinalis (Brook trout) - 0,024 mg/l - 60 d Remarks: (ECHA) semi-static test NOEC - Salvelinus fontinalis (Brook trout) - 0,024 mg/l - 60 d Remarks: (ECHA) semi-static test NOEC - Salvelinus fontinalis (Brook trout) - 0,024 mg/l - 60 d Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Ceriodaphnia dubia (water flea) - 3,8 mg/l - 8 d (US-EPA)

Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Mobility in soil

Moderate mobility.

Results of PBT and vPvB assessment

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 Product: 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.

13. Disposal considerations

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Waste treatment Method

No data available

14. Transport information

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UN number

ADR/RID: 3260 IMDG: 3260 IATA: 3260

UN proper shipping name

ADR/RID: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (aluminium sulfate)

IMDG: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (aluminium sulfate)

IATA: Corrosive solid, acidic, inorganic, n.o.s. (aluminium sulfate)

Transport hazard classes

ADR/RID: 8 IMDG: 8 IATA: 8

Packaging group

ADR/RID:III IMDG:III ICAO :III

Environmental hazards

No data available

15. Regulatory information

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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

No information

Chemical Safety Assessment

16. Other information

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Other Information

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No data available

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.