

1. Product and Company Identification

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Product Name
Part Number

Heptane
RXSOL-19-1199-025

Company Details:

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

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah, Muscat Barka

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Website www.rxmarine.com

2. Composition / Information on ingredients

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Name of Substance	Cas Number
N - Heptane	142-82-5

3. Hazards Identification

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Signal Word
Hazard Statements

Precautionary statements - prevention

Precautionary statements - response

Danger

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.
P210 Keep away from heat/sparks/open flames/hot surfaces.
P240 Ground/bond container and receiving equipment.
P273 Avoid release to the environment.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

4. First Aid Measures

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Skin Contact

Eye Contact

Inhalation:

Wash off immediately with plenty of water for at least 15 minutes. If clothing is contaminated, remove it.
Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. If contact continues, seek medical attention.
Move to fresh air. If not breathing, give artificial respiration.

Ingestion

Most important symptoms/effects

Notes to Physician

occur. Risk of serious damage to the lungs.

Clean mouth with water and drink afterwards plenty of water. Call Poison Control Center immediately. If vomiting occurs, do not vomit.

Breathing difficulties. Symptoms of overexposure may include dizziness, headache, and vomiting.

Treat symptomatically

5. Fire-fighting Measures

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Flammability of the Product

Suitable extinguishing media

Unsuitable extinguishing media

Flash Point

Autoignition Temperature

Explosion Limits Upper

Explosion Limits Lower

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

Specific Hazards Arising from the Chemical

Hazardous Combustion Products

Protective Equipment and Precautions for Firefighters

Further Information

Flammable.

Use water spray, alcohol-resistant foam, dry chemical extinguishers. Do not use water spray to fire with water spray.

Do not use a solid water stream as it may scatter and ignite the product. Flash point: -4 °C

215 °C / 419 °F

6.7 %

1.05%

No information available

No information available

Flammable. Containers may explode when heated. Vapors may travel to source of ignition and flash back.

Carbon monoxide (CO) Carbon dioxide (CO₂)

As in any fire, wear self-contained breathing apparatus (SCBA or equivalent) and full protective gear.

Remove container from danger zone and cool with water. Do not contaminate surface water or the ground water system.

6. Accidental Release Measures

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Spillage

Personal Protection

Environmental Precaution

Methods and materials for containment and cleaning

Cover drains. Collect, bind, and pump off spills. (See section 10). Take up carefully with liquid-absorbent material. Do not release to the environment. Collect spillage. Do not release to the environment. Collect spillage. Do not release to the environment.

Use personal protective equipment. Remove all sources of ignition. Avoid static discharges. Avoid contact with skin, eyes and clothing.

Should not be released into the environment. See section 10 for release to the environment. Collect spillage. Do not release to the environment.

Soak up with inert absorbent material. Keep in suitable container. Do not release to the environment. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

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Handling

Storage

Hygiene measures

Wear personal protective equipment. Do not get in eyes. Do not breathe vapors or spray. Do not get on hot surfaces and sources of ignition. Use only non-sparking tools. Avoid static electricity discharge, all metal parts of the equipment should be grounded against static discharges.

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

Immediately change contaminated clothing. Apply first aid measures. Do not work with substance.

8. Exposure controls and personal protection

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Engineering Control

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

Personal Protection

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

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

Respiratory Protection : Follow the OSHA respirator regulations under European Standard EN 149. Use a NIOSH/MSHA 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 practices.

Exposure Limits

TWA: 100 (ppm) [Canada] TWA: 435 (mg/m³) [Canada] TWA: 100 (ppm) 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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Physical State	Liquid
Colour	Colourless
Odour	Petroleum distillates
Odor Threshold	No Information Available
pH	Not Applicable
Melting Point	-91 °C / -131.8 °F
Boiling Point	98 °C / 208.4 °F
Flash Point	-4 °C / 24.8 °F
Evaporation Rate	2.8 (Butyl Acetate = 1.0)
Flammability (solid, gas)	Not Applicable
Explosive limits	Upper 6.7 vol % Lower 1.05 vol %
Vapour pressure	48 mbar @ 20 °C
Vapour Density	3.5
Secific Gravity	0.683
Decomposition Temperature	No information available
Partition coefficient	No data available
Autoignition Temperature	215 °C / 419 °F
Solubility in Water	Not Soluble
Viscosity	0.4 mPa s at 20 °C
Molecular Formula	C ₇ H ₁₆
Molecular Weight	100.20

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 (CO ₂),
Hazardous Polymerization	Hazardous polymerization does not occur. Hazardous Reactions None under normal processing

11. Toxicological information

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Acute toxicity	Component	LD50 Oral	LD50 Dermal
	n-Heptane	>2000 mg/kg (rat)	LD50 = 3000 mg/kg (Rabbit)
Toxicologically Synergistic	No information available		
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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Ecotoxicity	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains substances which are hazardous for the environment.		
COD and BOD 5	Not Available		
Persistence and Degradability	Biodegradability 70 %; 10 d; aerobic (ECHA) Readily biodegradable Biochemical Oxygen Demand (BOD) 1,920 mg/g (5 d) (IUCLID) Theoretical oxygen demand (ThOD) 3,500 mg/g (Lit.) Ratio BOD/ThBOD BOD5 55 % (Lit.)		
Mobility in soil	The product is insoluble and floats on water. Is not likely mobile in the environment due its low water solubility.		
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	Henry constant 208678 Pa*m ³ /mol Method: (calculated) (Lit.) Distribution preferentially in air. Discharge into the environment must be avoided.		

13. Disposal considerations

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Waste treatment Method

Chemical waste generators must determine whether the waste is hazardous. Chemical waste generators must also comply with local, state and federal regulations to ensure complete and accurate classification.

14. Transport information

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DOT

UN Number	UN1206
Proper shipping name	N-Heptane
Hazard Class	3
Packing group	II

TDG

UN Number	UN1206
Proper shipping name	N-Heptane
Hazard Class	3
Packing group	II

IATA

UN Number	UN1206
Proper shipping name	N-Heptane
Hazard Class	3
Packing group	II

IMDG/IMO

UN Number	UN1206
Proper shipping name	N-Heptane
Hazard Class	3
Packing group	II

15. Regulatory information

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Federal and State Regulation
National legislation

This product does not contain any DHS chemicals
Storage class 3

Chemical safety assessment

For this product a chemical safety assessment was
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airway
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects

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 information

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Other Information

The information above is believed to be accurate and available to us. However, we make no warranty of accuracy, implied, with respect to such information, and we advise you should make their own investigations to determine the product 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.

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