

1. Product and Company Identification

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Product Name Isoparaffin fluid
Part Number RXSOL-60-6601-210

Company Details:

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

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Product name	Cas No	EC No	Weight
ISOPAR H FLUID	64742-48-9	-	100%

3. Hazards Identification

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Signal Word	Danger
Hazard Statements	Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes mild skin irritation.
Precautionary statements	Keep away from heat/sparks/open flames/hot surface. - No smoking. Keep container tightly closed. Ground / bond container and receiving equipment. Use explosion-proof electrical ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: if you feel unwell, call a POISON CENTER or doctor/physician. 9 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with local regulations
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
Other hazards	No data available

4. First Aid Measures

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General advice	No data available
If inhaled	fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Eye Contact	flush thoroughly with water. If irritation occurs, get medical assistance
Swallowed	No data available

Skin Contact	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
Inhalation	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Ingestion	Seek immediate medical attention. Do not induce vomiting. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.
Most important symptoms and effects, both acute and delayed	No data available
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	Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames
Unsuitable extinguishing media	Straight streams of water.
Special hazards arising from the substance or mixture	Incomplete combustion products, Oxides of carbon, Smoke, Fume
Further information	No data available
Hazardous combustion products	No data available
Advice for firefighters	Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. .
Protective Equipment	Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel
Specific Hazards Arising from the Chemical	No data available

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Large Spills Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.
Methods and materials for containment and cleaning	Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces. Recover by pumping or with suitable absorbent. Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

7. Handling and Storage

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Advice on protection against fire and explosion

No data available

Incompatible materials

No data available

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping

Advice on safe handling

Avoid contact with skin. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation.

Conditions for safe storage including any incompatibilities

The type of container used to store the material may effect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, wellventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge. Suitable Materials and Coatings (chemical Compatibility): Carbon Steel; Stainless Steel; Amine Epoxy; Epoxy Phenolic; Polyamide Epoxy; Neoprene; Inorganic Zinc Coatings Unsuitable Materials and Coatings: Butyl Rubber; Polystyrene; Ethylene-propylene-diene monomer (EPDM); Natural Rubber; Vinyl coating

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 stipulated

Advice on general occupational hygiene

No data available

8. Exposure controls and personal protection

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Exposure controls

Personal protective equipment

Engineering Control

Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment

Eye/face protection

If contact is likely, safety glasses with side shields are recommended

Hand Protection

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. Nitrile, Viton.

Skin protection

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended

Respiratory protection

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and

maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator Type A filter material For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded

Other Protection Measure

No data available

9. Physical and chemical properties

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Physical state	Liquid
Colour	Colorless
Odour	Faint
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	179-188 °C
Flash Point	54°C
Evaporation Rate	0.07 (n-butyl acetate = 1)
Flammability (solid, gas)	No data available
Explosive limits	0.7%Vol
Upper/lower flammability or explosive limits	Upper explosion limit 5.0 %Vol
Autoignition temperature	359°C
Decomposition temperature	No data available
Vapour pressure	0.07 kPa at 20 °C
Viscosity	1.4 cSt at 40 °C
Density	No data available
Relative Density	0.79 - 0.8 at 20 °C
Specific Gravity	0.756-0.761 at 15.56 °C
Partition coefficient	>4
Explosive properties	No data available
Solubility	Negligible
Ignition temperature	No data available
Particle characteristics	No data available

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	Hazardous polymerization will not occur.
Conditions to avoid	Avoid heat, sparks, open flames and ignition source.
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Material does not decompose at ambient temperatures.

11. Toxicological information

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Acute toxicity	LD50 (Oral, rat): > 5000 mg/kg LC50 (Inhalation, rat): >5000 mg/m ³ LD50 (Skin, rabbit): >5000 mg/kg
Skin corrosion/irritation	No data available

Serious eye damage/irritation	No data available
Respiratory or skin sensitization	Vapour/aerosol concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, unconsciousness and other central nervous system effects including death. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.
Carcinogenicity	No data available
Germ cell mutagenicity	Based on available data the classification criteria are not met. Test Type Ames test Test system 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 Chinese hamster lung cells Metabolic activation with and without metabolic activation Method OECD Test Guideline 476 Result negative Test Type: Micronucleus test Species Mouse Cell type Bone marrow Application Route Intraperitoneal injection Method OECD Test Guideline 474 Result negative
Chronic toxicity	Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.
Specific target organ toxicity - single exposure	No data available
Additional Information	No data available

12. Ecological information

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Persistence and degradability	Expected to be Inherently biodegradable. Expected to degrade rapidly in air. Transformation due to hydrolysis not expected to be significant.
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Products Biodegradation	No data available
Mobility in soil	Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Other adverse effects	No data available

13. Disposal considerations

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Material disposal	Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.
Container disposal	Empty Container warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death

14. Transport information

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UN number	ADR/RID:3295	IMDG:3295	IATA:3295
UN proper shipping name	ADR/RID:HYDROCARBONS, LIQUID, N.O.S.	IMDG:HYDROCARBONS, LIQUID, N.O.S.	IATA:HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	ADR/RID:3	IMDG:3	IATA:3
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:No	IMDG:No	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 is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Material BE 2555..
Other regulations	No data available
Chemical Safety Assessment	A Chemical Safety Assessment has been carried out for this substance.

16. Other information

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Other Information

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