

## 1. Product and Company Identification

www.rxmarine.com

Product Name Fuel Oil Demulsifier  
Part Number RXSOL-60-7028-025

Company Details:....

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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## 2. Composition / Information on ingredients

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Pure substance/mixture Mixture

### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Solvent naphtha (petroleum), heavy arom.	64742-94-5	70 - 100 %
Naphthalene	91-20-3	0 - 6 %
1,2,4-trimethylbenzene	95-63-6	2 - 6 %
1,2,3-trimethylbenzene	526-73-8	2 - 4 %
Indan	496-11-7	0 - 2 %

## 3. Hazards Identification

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### Emergency Overview

Appearance	liquid
Colour	Clear colorless.
Odour	Aromatic. Sweetish.
GHS Classification	
Flammable liquids	Category 4
Skin irritation	Category 2
Eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity	Category 3 (Central nervous system)
- single exposure	
Specific target organ toxicity	Category 1 (Eyes, Blood)
- single exposure	
Aspiration hazard	Category 1

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**GHS Label element****Hazard statements**

H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H372 Causes damage to organs (Eyes, Blood) through

**Precautionary statements**

prolonged or repeated exposure.

**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

	<p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362 Take off contaminated clothing and wash before reuse.</p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</p> <p><b>Storage:</b></p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p><b>Disposal:</b></p> <p>P501 Dispose of contents/ container to an approved waste disposal plant.</p>
<b>Potential Health Effects</b>	
Primary Routes of Entry	
	<p>Inhalation</p> <p>Ingestion</p> <p>Eye contact</p> <p>Skin contact</p> <p>Skin Absorption</p>
Inhalation	<p>Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.</p> <p>Inhalation may cause central nervous system effects.</p>
Skin	<p>May cause skin irritation.</p>
Eyes	<p>May irritate eyes.</p>
Ingestion	<p>Aspiration hazard if swallowed - can enter lungs and cause damage.</p> <p>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.</p>
Chronic Exposure	<p>Prolonged skin contact may cause skin irritation and/or dermatitis.</p>
Aggravated Medical Condition	<p>None known.</p>
<b>Carcinogenicity:</b>	

Group 2B: Possibly carcinogenic to humans

ACGIH

Naphthalene

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Reasonably anticipated to be a human carcinogen

Naphthalene

## 4. First Aid Measures

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### If inhaled

Move to fresh air.

Artificial respiration and/or oxygen may be necessary.

Seek medical advice.

### In case of skin contact

In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash skin thoroughly with soap and water or use recognized skin cleanser.

Wash clothing before reuse.

Seek medical advice.

### In case of eye contact

Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Obtain medical attention.

### If swallowed

Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.

### Most important symptoms and effects, both acute and delayed

First aider needs to protect himself.

## 5. Fire-fighting Measures

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### Suitable extinguishing media

Dry chemical

Carbon dioxide (CO<sub>2</sub>)

Water spray

Water fog.

<b>Unsuitable extinguishing media</b> <b>Specific hazards during firefighting</b>	<p>Do NOT use water jet.</p> <p>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.</p>
	<p>In a fire or if heated, a pressure increase will occur and the container may burst, with the</p> <p>risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along</p> <p>the ground. Vapors may accumulate in low or confined areas or travel a considerable</p> <p>distance to a source of ignition and flash back.</p>
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<b>Hazardous combustion</b> <b>Further information</b>	<p>Cool closed containers exposed to fire with water spray</p>
	<p>Carbon oxides (CO, CO<sub>2</sub>), smoke and irritating vapours as products of incomplete combustion.</p> <p>Prevent fire extinguishing water from contaminating surface water or the ground water system.</p> <p>spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all persons from the vicinity of the incident if</p> <p>there is a fire. No action shall be taken involving any personal risk or without suitable</p> <p>training. Move containers from fire area if this can be done without risk. Use water</p> <p>spray to keep fire-exposed containers cool.</p>
<b>Special protective equipment for firefighters</b>	<p>Wear self-contained breathing apparatus for firefighting if necessary.</p>

## 6. Accidental Release Measures

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### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

### Environmental precautions

Material can create slippery conditions.

If the product contaminates rivers and lakes or drains inform respective authorities.

### Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.

Soak up with inert absorbent material.

Non-sparking tools should be used.

Ensure adequate ventilation.

Contact the proper local authorities.

## 7. Handling and Storage

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### Advice on safe handling

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Use only with adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition.

Keep container closed when not in use.

### Conditions for safe storage

Store in original container.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep in a dry, cool and well-ventilated place.

Keep in properly labelled containers.

To maintain product quality, do not store in heat or direct sunlight.

## 8. Exposure controls and personal protection

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**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters /	Basis
naphthalene	91-20-3		Permissible concentration	
		TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		TWA	10 ppm	NIOSH REL
			50 mg/m3	
		ST	15 ppm	NIOSH REL
			75 mg/m3	
		TWA	10 ppm	OSHA Z-1
			50 mg/m3	
1,2,4-trimethylbenzene	95-63-6	TWA	10 ppm	OSHA P0
			50 mg/m3	
		STEL	15 ppm	OSHA P0
1,2,3-trimethylbenzene	526-73-8		75 mg/m3	
		TWA	25 ppm	NIOSH REL
			125 mg/m3	
1,2,3-trimethylbenzene	526-73-8	TWA	25 ppm	NIOSH REL
			125 mg/m3	
			125 mg/m3	

**Engineering measures**

Use only in well-ventilated areas. Ensure that eyewash station and safety shower are proximal to the work-station location.

**Personal protective equipment**

## Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Filter type

A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

## Hand protection Material

polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

## Remarks

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## Eye protection

Wear face-shield and protective suit for abnormal processing problems.

## Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## Protective measures

Wash contaminated clothing before re-use.

## Hygiene measures

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after

## 9. Physical and chemical properties

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<b>Appearance</b>	liquid
<b>Colour</b>	Clear colorless
<b>Odor</b>	Aromatic. Sweetish.
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting Point</b>	No data available
<b>Boiling point/boiling range</b>	180 - 217 °C (356 - 423 °F)
<b>Flash point</b>	63 °C (145 °F)
	Method: Pensky-Martens closed cup
<b>Fire Point</b>	No data available
<b>Auto-Ignition Temperature</b>	463 °C (865 °F)
<b>Evaporation rate</b>	Ether
<b>Flammability</b>	Combustible, avoid open flames, sparks, static discharge and intense heat.
	materials. Extremely flammable in the presence of the following materials or conditions: oxidizing
	materials.
<b>Upper explosion limit</b>	6.4 %(V)
	Based on 1,2,4 Trimethylbenzene
<b>Lower explosion limit</b>	0.9 %(V)
	Based on 1,2,4 Trimethylbenzene
<b>Vapor pressure</b>	approximately 0.3 kPa (38 °C / 100 °F)
<b>Relative vapor density</b>	4Air = 1
<b>Relative density</b>	0.89 - 0.905Water = 1
<b>Density</b>	No data available
<b>Solubility(ies)</b>	
<b>Solubility in other solvents</b>	Easily soluble in, diethyl ether, acetone, methanol, Partially soluble in, n-octane, Insoluble in, cold water, hot water
<b>Partition coefficient: noctanol/water</b>	No data available
<b>Viscosity</b>	approximately 0.97 mPa.s (38 °C)
<b>Viscosity, dynamic</b>	
<b>Viscosity, kinematic</b>	No data available
<b>Explosive properties</b>	Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Containers may explode in heat of fire.
<b>Molecular weight</b>	approximately 135 g/mol

## 10. Stability and reactivity

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<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur. Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Reactive with oxidising agents and acids.
<b>Hazardous decomposition products</b>	May release COx, NOx, smoke and irritating vapors when heated to decomposition.



## 11. Toxicological information

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### Information on likely routes of exposure

Inhalation

Ingestion

Eye contact

Skin contact

Skin Absorption

### Acute toxicity

#### Product

Remarks: No data available

Acute oral toxicity

Remarks: No data available

Acute inhalation toxicity Remarks: No data available

Remarks: No data available

Acute dermal toxicity

#### Components

solvent naphtha (petroleum), heavy aroma

Acute oral toxicity

LD50 (Rat): > 5,000 mg/kg

LC50 (Rat): > 0.59 mg/l Exposure time: 4 h

Acute inhalation toxicity

LD50 (Rabbit): > 2,000 mg/kg

Acute dermal toxicity

#### **Naphthalene**

LD50 (Rat): 490 mg/kg

Acute oral toxicity

LC50 (Rat): 141 ppm

Exposure time: 4 h

Acute inhalation toxicity

Test atmosphere: vapour

LD50 (Rabbit): > 20,000 mg/kg

Acute dermal toxicity

#### **1,2,4-trimethylbenzene**

LD50 (Rat): 5,000 mg/kg

Acute oral toxicity

LC50 (Rat): 18 mg/l

Acute inhalation toxicity

Exposure time: 4 h

**Skin corrosion/irritation**

Product	Remarks: No data available.
Components	Result: Mild skin irritation
1,2,4-trimethylbenzene	
1,2,3-trimethylbenzene	Result: Mild skin irritation

**Serious eye damage/eye irritation**

Product	Remarks: No data available
Components	Result: Mild eye irritation
1,2,4-trimethylbenzene	
1,2,3-trimethylbenzene	Result: Mild eye irritation
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available

**12. Ecological information**[www.rxmarine.com](http://www.rxmarine.com)**Ecotoxicity**

<b>Product</b>	Remarks: No data available
Toxicity to fish	Remarks: No data available
	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available
Toxicity to algae	

Toxicity to bacteria

**Components  
naphthalene**

LC50 (Daphnia (water flea)): 2.16 mg/l Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia (water flea)): 1.96 mg/l Exposure time: 48 h

Toxicity to algae

EC50 (Chlorella vulgaris (Fresh water algae)): 0.4 mg/l  
Exposure time: 72 h**Persistence and degradability****Product**

Biodegradability

Remarks: No data available

**Bioaccumulative potential****Components**

## naphthalene

Partition coefficient noctanol/water

log Pow: 3.01 - 3.59

Mobility in soil

No data available

Other adverse effects

No data available

## 13. Disposal considerations

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### Disposal methods

#### Waste from residues

The product should not be allowed to enter drains, water courses or the soil.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste must be classified and labeled prior to recycling or disposal.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

Do not re-use empty containers.

#### Contaminated packaging

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

### International Regulation

#### IATA-DGR

UN/ID No.

Proper shipping name

1268

Class

Petroleum distillates, n.o.s.

Packing group

3

Labels

III

Packing instruction (cargoaircraft)

3

366

#### IMDG-Code

UN number

Proper shipping name

Class

1268

Packing group

PETROLEUM DISTILLATES, N.O.S.

Labels	3
EmS Code	III
	3
	F-E, S-E
Marine pollutant	no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### 49 CFR

UN/ID/NA number	1268
Proper shipping name	Petroleum distillates, n.o.s.
Class	3
Packing group	III
Labels	3
ERG Code	128
Marine pollutant	no

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

#### The components of this product are reported in the following inventories

<b>TSCA</b>	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
<b>DSL</b>	On the inventory, or in compliance with the inventory

## 16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.
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