Product Name : Paraffin Inhibitor RXSOL 3085

Part Number : RXSOL-81-2225-210

Company Details:

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

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2. Composition / Information on ingredients www.rxmarine.com Name of Substance Cas Number EC No Wt.% Symbol Xylene 1330-20-7 202-422-2 70 -80% Xi Ethylbenzene 100-41-4 202-849-4 10-20% Xn Acetic acid 64-19-7 100-580-7 5 - 10% Χn Alkylarylsulfonic 68411-32-5 271-117-1 1 -5 % Xn acid 5-10% Proprietory Blend

3. Hazards Identification

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Signal Word Danger

Hazard Statements Flammable liquid and vapor.

Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage.

Suspected of causing cancer. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Precautionary statements -

prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Verification gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flatignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoo ventilated area. Do not breathe vapor. Wash hands thoroughly after handling.

Precautionary statements - response

Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove per and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Imm POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON

SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISO physician

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations

4. First Aid Measures

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Eye Contact

Skin Contact

Inhalation:

Ingestion:

Note to Physician

Protection of first-aiders

Get medical attention immediately. Call a poison center or physician. Immediately flush the eye(s) continuously with lukewarm, gently flowing water for at least 20-60 minutes while holding the eyelid(s) open. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician

Get medical attention immediately. Call a poison center or physician. Wash affected area with soap and mild detergent for at least 20 - 60 minutes. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Call a poison center or physician. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. Fire-fighting Measures

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Suitable extinguishing media
Unsuitable extinguishing media
Protective Equipment

Specific hazards arising from the chemical

Hazardous thermal decomposition products Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Use dry chemical, CO?, alcohol-resistant foam or water spray (fog).

Do not use water jet

Wear suitable fire fightin suit.

Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion

Carbon dioxide, carbon monoxide, sulfur oxides

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Fire-fighters should wear appropriate protective equipment and self-contained breathingapparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Environmental Precaution

Methods and materials for containment and cleaning up

For non-emergency: personnelNo action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Small Spill:: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatmentplant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and Storage

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Advice on safe handling

Storage

Conditions for safe storage including any incompatibilities

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use

8. Exposure controls and personal protection

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Occupational exposure limits

Ingredient Name

Ethylbenzene

Xylene

Exposure Limits

ACGIH TLV (United States,

3/2018).

STEL: 651 mg/m³, 0 times per

shift, 15 minutes.

STEL: 150 ppm, 0 times per shift,

15 minutes.

TWA: 434 mg/m³, 0 times per

shift, 8 hours.

TWA: 100 ppm, 0 times per shift,

8 hours.

OSHA PEL (United States,

5/2018).

TWA: 435 mg/m³, 0 times per

shift, 8 hours.

TWA: 100 ppm, 0 times per shift,

8 hours.

OSHA PEL 1989 (United States,

3/1989).

STEL: 655 mg/m³, 0 times per

shift, 15 minutes.

STEL: 150 ppm, 0 times per shift,

15 minutes.

TWA: 435 mg/m³, 0 times per

shift, 8 hours.

TWA: 100 ppm, 0 times per shift,

8 hours.

ACGIH TLV (United States,

3/2018).

TWA: 20 ppm, 0 times per shift, 8

hours.

NIOSH REL (United States,

10/2016).

STEL: 545 mg/m³, 0 times per

shift, 15 minutes.

STEL: 125 ppm, 0 times per shift,

15 minutes.

TWA: 435 mg/m³, 0 times per

shift, 10 hours.

TWA: 100 ppm, 0 times per shift,

10 hours.

OSHA PEL (United States,

5/2018).

TWA: 435 mg/m³, 0 times per

shift, 8 hours.

TWA: 100 ppm, 0 times per shift,

8 hours.

OSHA PEL 1989 (United States,

3/1989).

STEL: 545 mg/m³, 0 times per

shift, 15 minutes.

STEL: 125 ppm, 0 times per shift,

15 minutes.

TWA: 435 mg/m³, 0 times per

shift, 8 hours.

TWA: 100 ppm, 0 times per shift,

8 hours.

Acetic Acid

ACGIH TLV (United States,

3/2018).

STEL: 37 mg/m³, 0 times per shift,

15 minutes.

STEL: 15 ppm, 0 times per shift,

15 minutes.

TWA: 25 mg/m³, 0 times per shift,

8 hours.

TWA: 10 ppm, 0 times per shift, 8

hours.

NIOSH REL (United States,

10/2016).

STEL: 37 mg/m³, 0 times per shift,

15 minutes.

STEL: 15 ppm, 0 times per shift,

15 minutes.

TWA: 25 mg/m³, 0 times per shift,

10 hours.

TWA: 10 ppm, 0 times per shift,

10 hours.

OSHA PEL (United States,

5/2018).

TWA: 25 mg/m³, 0 times per shift,

8 hours.

TWA: 10 ppm, 0 times per shift, 8

hours.

OSHA PEL 1989 (United States,

3/1989).

TWA: 25 mg/m³, 0 times per shift,

hours

Alkylarylsulfonic acid TWA: 10 ppm, 0 times per shift, 8

hours. None.

Consult local authorities for acceptable exposure limits.

If OSHA permissible exposure levels are shown above they are the OSHA 1989 levels or are from subsequent OSHA regulatory actions.

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Eye protection: Wear chemical safety goggles. When transferring material wear face-shield in addition to chemical safety goggles. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection: Chemical-resistant glove

Skin protection : Wear long sleeves and chemical resistant apron to prevent repeated or prolonged skin

contact.

Respiratory protection: If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. 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.

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Engineering Controls

Personal Protection

Hygiene measures





Gloves Suit

9. Physical and chemical properties

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Physical State Liquid
Colour Pale yellow
Odour Aromatic.
Odor threshold Not Available

pH 2 - 4

5% of product in 75% isopropanol / 25% water solution

Boiling Point Not Available
Initial Boiling Point Not Available
Freezing Point/ Melting Point Not Available

Flash Point Closed cup: 28.89°C (84°F)

Burning Time Not Applicable
Burning Rate Not Applicable
Evaporation rate Not Applicble

Flammability (solid, gas) Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and

Upper explosion limit No data available Lower explosion limit No data available Explosive properties No data available

Vapor pressure 22.1 kPa (165.5 mm Hg, 3.2 psig) @ 54.4°C, 130 F (Reid)

Vapor density No information available

Relative density 0.88

Density 0.886 g/cm3 Water solubility insoluble

Partition coefficient: octanol No data available No data available Autoignition temperature No data available Thermal decomposition Viscosity, kinematic No data available No data available Explosive properties Oxidizing properties No data available Dynamic viscosity No data available VOC (%) No data available No information available Pour point

10. Stability and reactivity

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Recativity No specific test data related to reactivity available for this product or its ingredients.

Stability Stable under normal conditions and recommended use.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials, organic materials, acids and alkalis. Hazardous Decomposition Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Condition to Avoid Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expo

heat or sources of ignition.

Polymerization Hazardous polymerization does not occur.

11. Toxicological information

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Acute toxicity

	Product/ingre dient name	Result	Specie	s	Dose	Exposure
	Xylene	LC50 Inhalation Gas. LD50 Dermal LD50 Oral LD50 Oral	Rat Rabbit Male F Rate		5000 ppm >1700mg/kg 3523 mg/kg 4300 mg/kg	
	Ethylbenzene	LD50 Dermal LD50 Oral	Rabbit Rat		15400 mg/kg 3500 mg/kg	
	Acetic Acid	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit		11000 mg/m 1060 mg/kg	
	Alkylarylsulf onic acid	LD50 Oral LD50 Oral	Rat Rat		3310 mg/kg 1260 mg/kg	
Irritation/Corrosion	No applicable toxicity data					
Sensitization	No applicable toxicity data					
Mutagenicity	No applicable toxicity data.					
Carcinogenicity	Product/ingreent name	die OSHA		IARC	N	TP
	Xylene	-		3	-	
	Ethylbenzen	-		2b	-	
Reproductive toxicity	No applicable	toxicity data				
Teratogenicity	No applicable toxicity data					
Specific target organ toxicity (single exposure)	Name Xylene	Category 3			of exposure Taplicable. N	arget organs arcotic effects
Specific target organ toxicity (repeated exposure)	Name Ethylbenzene	Category Category 2			of exposure Tatermined H	arget organs earing organs
Aspiration hazard	Name			Result		
	Xylene			ASPIR Catego	ATION HAZ ory 1	ZARD -
Information on the likely	Routes of entry anticipated: Dermal, Inhalation.					

Information on the likely routes of exposure

Potential acute health effects

Eye contact: Causes serious eye damage.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression.

May cause drowsiness or dizziness.

Skin contact: Causes severe burns. Harmful in contact with skin.

Ingestion: Can cause central nervous system (CNS) depression.

Potential chronic health effects

Carcinogenicity:

General: May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer. Risk of cancer depends on duration and

level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Acute toxicity estimates Route ATE Value

> Oral 3900.7 mg/kg Dermal 1471.1 mg/kg Inhalation (gases) 6686.8 ppm Inhalation (vapors) 84.49 mg/l

12. Ecological information

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Toxicity

Product/ingredie Result Species Exposure nt name Xylene Acute LC50 Crustaceans -48 Hours 8500 µg/l Marine Palaemonetes water pugio Acute LC50 Ethylbenzene Fish -96 Hours 13400 µg/l Fresh Pimephales 72 hours 48 Hours promelas water Acute EC50 Algae - Pseudoki 48 Hours 96 hours rchneriella 4600 µg/l Fresh 96 hours water subcapitata Acute EC50 Daphnia -Daphnia magna 2930 to 4400 μg/l Fresh Crustaceans -Americamysis water Acute LC50 bahia 5200 µg/l Marine Fish -Oncorhynchus water Acute LC50 mykiss Algae - Pseudoki 4200 µg/l Fresh water rchneriella Chronic NOEC subcapitata

1000 µg/l Fresh water

Acetic Acid Acute EC50

Algae - Navicula 96 hours 73400 µg/l Fresh seminulum 48 hours Daphnia -48 hours water Acute EC50 96 hours Daphnia magna

65000 µg/l Fresh Crustaceans water Artemia sp. Acute LC50 50.1 Fish - Lepomis ul/L Marine macrochirus water

Acute LC50 75000 µg/l Fresh water

Persistence and degradability

Other adverse effects

Persistence and degradability

Results of PBT and vPvB assessment

Not available.

No known significant effects or critical hazards.

Not classified as PBT/vPvB by current EU criteria.

13. Disposal considerations

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Remarks

Waste Disposal

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

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Transport hazard class(es)

	DOT	TDG Classification	IMDG	IATA
UN Number	m UN2924	UN2924	UN2924	UN2924
Proper shipping name	FLAMMAB LE LIQUID, CORROSIV E, N.O.S. (Contains: Xylene, Alkylarylsulf onic acid)	FLAMMAB LE LIQUID, CORROSIV E, N.O.S. (Contains: Xylene, Alkylarylsulf onic acid)	CORROSIV E, N.O.S. (Contains: Xylene,	FLAMMAB LE LIQUID, CORROSIV E, N.O.S. (Contains: Xylene, Alkylarylsulf onic acid)
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)
Packing Group	III	III	III	III
Environmental hazards	t NO	NO	NO	NO

Additional information

ADR/RID

TDG Classification

IATA

Special precautions for user

Environmental hazards

Reportable quantity 133.69 lbs / 60.695 kg [18.22 gal / 68.972 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8).

The environmentally hazardous substance mark may appear if required by other transportation regulations.

Transport within user s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Environmental hazards No
Marine pollutant No

15. Regulatory information

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US Federal Regulations TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found. United States inventory (TSCA 8b): All components are listed or

exempted.

Clean Water Act (CWA) 307: Ethylbenzene; Toluene; Benzene

Clean Water Act (CWA) 311: Ethylbenzene; Xylene; Toluene; Benzene;

Acetic acid; Sulfuric acid

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product contains substance(s) which are not listed on the Domestic

Substances List (DSL) or the Non-Domestic

Substances List (NDSL).

NATIONAL REGULATIONS, CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION

SYSTEM (WHMIS):

This product has been classified in accordance with the hazard criteria of

the Controlled Products Regulations (CPR)

and the MSDS contains all the information required by the CPR.

B2 - Flammable Liquids, D2A - Materials Causing Other Toxic Effects -

Very Toxic Material, D2B - Materials Causing

Other Toxic Effects - Toxic Material

California Prop. 65 WARNING: This product can expose you to benzene, which is known to

the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Sulfuric acid, ethylbenzene, cumene, which are known to the State of California to cause cancer, and Toluene, which is known to the State of

California to cause birth defects or other reproductive harm.

16. Other information

WHMIS CLASSIFICATION:

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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 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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