

1. Product and Company Identification

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Product Name Purging Thinner
Part Number RXSOL-18-1014-220

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 Number	EC NO	Weight g/mol
Acetone	67-64-1	200-662-2	58.08
Mixed xylenes	1330-20-7	215-535-7	106.16
Ethylbenzene	100-41-4	202-849-4	106.167
Heptan	142-82-5	205-263-8	100.21
Methanol	67-56-1	200-659-6	32.04
Isopropyl alcohol	67-63-0	200-661-7	60.1
n-Butyl acetate	123-86-4	204-658-1	116.16
Cumene	98-82-8	202-207-5	120.19

3. Hazards Identification

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Flammable liquids	Category 2
Acute toxicity (Inhalation)	Category 4
Skin irritation	Category 2
Eye irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity - single exposure	Category Category 2 (Central nervous system, Eyes)
Specific target organ toxicity - single exposure	Category 3 (Central nervous system)
Aspiration hazard	Category 1
Signal Word	Danger
Hazard Statements	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways . H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H371 May cause damage to organs (Central nervous system, Eyes).
Precautionary statements - 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. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ 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/ protective clothing/ eye protection/ face protection

Precautionary statements - response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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 + P311 IF exposed or concerned: Call a POISON CENTER/doctor. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up

Disposal

P501 Dispose of contents/ container to an approved waste disposal plan

Other hazards

None known

4. First Aid Measures

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General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled

Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice

Skin Contact

If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

Eye Contact

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician or Poison Control Center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms/effects

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Notes to Physician

Treat symptomatically

If swallowed

Keep respiratory tract clear. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages

5. Fire-fighting Measures

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Flammability of the Product

Flammable

Suitable extinguishing media

Alcohol-resistant foam Carbon dioxide (CO₂) Dry chemical

Unsuitable extinguishing media

High volume water jet

Specific hazards during firefighting	Do not allow run-off from fire fighting to enter drains or water courses
Hazardous combustion products	Carbon oxides Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). formaldehyde toxic fumes corrosive vapors Nitrogen oxides (NOx)
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers
Extinguishing media which must not be used for safety reasons:	High power water jet.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary
Additional information	Contaminated fire-fighting water must be collected separately.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedure	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Spillage	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Personal Protection	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precaution	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

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Advice on protection against fire and explosion	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition
Advice on safe handling	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations
Conditions for safe storage	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or

spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area. Corrosives area.
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
Recommended storage temperatur	-15 - 45 °C

8. Exposure controls and personal protection

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Cas Number	Components	Control parameters / Value type (Form of Basis)	Permissible concentration	exposure)
67-64-1	Acetone	250 ppm	TWA	ACGIH
		500 ppm	STEL	ACGIH
		250 ppm	TWA	NIOSH REL
		590 mg/m3		
		1,000 ppm	TWA	OSHA Z-1
		2,400 mg/m3		
		750 ppm	TWA	OSHA P0
		1,800 mg/m3		
		1,000 ppm	STEL	OSHA P0
		2,400 mg/m3		
1330-20-7	Mixed xylenes	100 ppm	TWA	OSHA Z-1
		435 mg/m3		
		100 ppm	STEL	ACGIH
		150 ppm	TWA	ACGIH
		500 ppm	TWA	OSHA Z-1
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, It dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated It AND/OR Solvent naphtha (pet), It aliph.	2,000 mg/m3		
		400 ppm	TWA	OSHA P0
		1,600 mg/m3		
		20 ppm	TWA	ACGIH
100-41-4	Ethylbenzene	100 ppm	TWA	NIOSH REL
		435 mg/m3		
		125 ppm	ST	NIOSH REL
		545 mg/m3		
		100 ppm	TWA	OSHA Z-1
		435 mg/m3		
		100 ppm	TWA	OSHA P0
		435 mg/m3		
		125 ppm	STEL	OSHA P0

142-82-5	Heptane	545 mg/m ³		
		85 ppm	TWA	NIOSH REL
		350 mg/m ³		
		440 ppm	C	NIOSH REL
		1,800 mg/m ³		
		500 ppm	TWA	OSHA Z-1
		2,000 mg/m ³		
		400 ppm	STEL	OSHA P0
		1,600 mg/m ³		
		500 ppm	STEL	OSHA P0
67-56-1	Methanol	2,000 mg/m ³		
		400 ppm	TWA	ACGIH
		500 ppm	STEL	ACGIH
		200 ppm	TWA	NIOSH REL
		250 ppm	STEL	NIOSH REL
		200 ppm	TWA	OSHA Z-1
		260 mg/m ³		
		250 ppm	ST	OSHA P0
		325 mg/m ³		
		200 ppm	TWA	OSHA P0
67-63-0	Isopropyl alcohol	260 mg/m ³		
		250 ppm	STEL	OSHA P0
		325 mg/m ³		
		200 ppm	TWA	ACGIH
123-86-4	n-Butyl acetate	260 mg/m ³		
		200 ppm	STEL	ACGIH
400 ppm	TWA	NIOSH RE		
150 ppm	TWA	ACGIH		

Engineering Control

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eye/face Protection Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems

Skin and body protection : Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the wo

Respiratory Protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits.

Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. In the case of vapour formation use a respirator with an approved filter.

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

TWA: 100 (ppm) [Canada] TWA: 435 (mg/m³) [Canada] TWA: 434 STEL: 651 (mg/m³) from ACGIH (TLV) [United States]

TWA: 100 STEL: 150 (ppm) from ACGIH (TLV) [United States]

Consult local authorities for acceptable exposure limits.

Hygiene Measures

Exposure Limits



Gloves Suit

9. Physical and chemical properties

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Form	Liquid
Colour	Clear, Colorless
Odour	solvent-like
Odor Threshold	No Information Available
pH	Not Applicable
Melting Point	-25 °C / -13 °F
Boiling Point	143 - 145 °C / 289.4 - 293 °F
Flash Point	>= -17.0 °C (>= 1.4 °F)
Evaporation Rate	Not Applicable
Flammability (solid, gas)	Not Applicable
Explosive limits	No data available
Vapour pressure	No information available
Relative vapour density	No data available
Density	>= 0.8045 g/cm ³ @ 20 °C (68 °F)
Water solubility	No data available
Relative density	0.785 - 0.815
Secific Gravity	0.878
Decomposition Temperature	No information available
Partition coefficient	No data available
Autoignition Temperature	No data available
Solubility in Water	Not Soluble
Viscosity	No information available
Molecular Formula	C ₈ H ₁₀
Molecular Weight	106.17
Thermal decomposition	No data available

10. Stability and reactivity

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Reactivity Hazard	No dangerous reaction known under conditions of normal use.
Stability	Stable under normal conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air
Conditions to avoid	Acids Aldehydes Alkali metals Amines Bases Halogenated compounds Metals Nitrogen oxides (NOx) Oxidizing agents Reducing agents strong bases Peroxides
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 oral toxicity	Acute toxicity estimate: 2,222 mg/kg
Acute inhalation toxicity	Acute toxicity estimate: 8626 ppm Exposure time: 4 h Test atmosphere: gas
Acute dermal toxic	Acute toxicity estimate: 2,829 mg/kg
Skin corrosion	1330-20-7: Species: Rabbit Exposure time: 24 h Result: Irritating to skin. 68410-97-9 / 64742-49-0 / 64742-89-8: Species: Rabbit Exposure time: 4 h Result: Irritating to skin. 67-63-0: Species: Rabbit Result: Irritating to skin.
Serious eye damage/eye irritation	Species: Rabbit Result: Irritating to eyes. Exposure time: 24 h 1330-20-7: Species: Rabbit Result: Irritating to eyes. 67-63-0: Species: Rabbit Result: Irritating to eyes.
Acute inhalation toxicity	The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity	LD50 (Rabbit): 1,700 mg/kg Assessment: The component/mixture is moderately toxic after single contact with skin.
Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. Can be absorbed through skin. Eyes: Causes eye irritation. Inhalation: 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 in animal. May cause adverse reproductive effects (male and female fertility (spontaneous abortion and fetotoxicity) and birth defects based animal data.
Further information After absorption:	Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
Carcinogenicity	Not classifiable as a human carcinogen. IARC Group 2B: Possibly carcinogenic to humans 100-41-4 **Ethylbenzene 98-82-8 **Cumene OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

12. Ecological information

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Toxicity to Fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l Exposure time: 96 h LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l Exposure time: 96 h Test Type: semi-static test LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h Test Type: Immobilization
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l Exposure time: 72 h EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l

Toxicity to fish (Chronic toxicity)	Exposure time: 96 h Test Type: static test NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l Exposure time: 14 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOELR (Daphnia magna (Water flea)): 2.6 mg/l Exposure time: 21 d
COD and BOD 5	Not Available
Products of Biodegradation:	No information available.
Mobility in soil	No information available.
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, Annex XIII, or a PBT/vPvB assessment was not conducted.
Other adverse effects	Ozone-Depletion Potential Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B) Additional ecological information An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Harmful to aquatic life with long lasting effects

13. Disposal considerations

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Waste from residues	Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum

14. Transport information

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DOT (Department of Transportation)	UN1993, Flammable liquids, n.o.s., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES), 3, II
IATA (International Air Transport Association):	UN1993, FLAMMABLE LIQUID, N.O.S., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES), 3, II
IMDG (International Maritime Dangerous Goods)	UN1993, FLAMMABLE LIQUID, N.O.S., (ACETONE, MIXTURE OF PETROLEUM DISTILLATES), 3, II, Flash Point: >= -17.0 °C (>= 1.4 °F)

15. Regulatory information

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Components	CAS-No.	Component RQ	Calculated product RQ
Mixed xylenes	1330-20-7	100	289
Ethylbenzene	100-41-4	1000	8258
SARA 304 Extremely Hazardous Substances Reportable Quantity		This material does not contain any components with a section 304 EHS RQ.	
SARA 311/312 Hazards		Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Aspiration hazard	
Clean Air Act		The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): 100-41-4 Ethylbenzene 67-56-1 Methanol This product does not contain any chemicals listed under the U.S. Clean	

Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489): 67-64-1 Acetone 1330-20-7 Mixed xylenes 100-41-4 **Ethylbenzene 67-56-1 Methanol 67-63-0 Isopropyl alcohol 123-86-4 n-Butyl acetate

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: 1330-20-7 Mixed xylenes 100-41-4 Ethylbenzene 123-86-4 n-Butyl acetate 108-88-3 Toluene 110-82-7 Cyclohexane 71-43-2 Benzene 91-20-3 Naphthalene The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3: 1330-20-7 Mixed xylenes 00-41-4 Ethylbenzene 123-86-4 n-Butyl acetate 108-88-3 Toluene 110-82-7 Cyclohexane 71-43-2 Benzene

Other Regulation

OSHA Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

WHMIS (Canada)

CLASS B-2 Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

WARNING

This product can expose you to chemicals including Ethylbenzene, Cumene, Benzene, Naphthalene, which is/are known to the State of California to cause cancer, and Methanol, Toluene, n-Hexane, Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

- TSCA
- DSL
- AICS
- NZIoC
- ENCS
- KECI
- PICCS

- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory
- Not in compliance with the inventory
- On the inventory, or in compliance with the inventory
- 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 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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