Material Safety Data Sheet

Solvent Degreaser (RXSOL-20-1005-025)

1. Product and Company Identifaction

Product Name	: Solvent Degreaser
Part Number	: RXSOL-10-1005-025

Company Details:
RX MARINE INTERNATIONAL
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VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics Naphtha (petroleum), hydrotreated heavy	64742-48-9	918-481-9

3. Hazards Identification

Classification (1999/45/EEC) Xi;R38, R41. Human health	Irritating to skin. Risk of serious damage to eyes.
Environment	The product contains a substance which is very toxic to aquatic organisms. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms
Detergent Labelling:	5% anionic surfactants non-ionic surfactants cationic surfactants
Labelling	perfumes
Risk Phrases	R38 Irritating to skin. R38 Irritating to skin.R41 Risk of serious damage to eyes.
Safety Phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S24/25 Avoid contact with skin and eyes. S37/39 Wear suitable gloves and eye/face protection. S60 This material and its container must be disposed of as hazardous waste.

4. First Aid Measures

Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention
Skin Contact	Remove victim immediately from source of exposure. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Inhalation:	Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.
Ingestion:	Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.
Most important symptoms and effects, both acute and delayed	
Inhalation	Spray mists may cause respiratory tract irritation.
Ingestion	May cause discomfort if swallowed. May cause internal injury.
Skin contact	Skin irritation
Eye contact	Irritating to eyes
3. Indication of any immediate medical attention and special treatment needed	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

5. Fire-fighting Measures

Extinguishing Media

Property	Specification / Information
Suitable Extinguishing Media	Use dry chemical, CO?, water spray (fog) or foam. Sand.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Property	Specification / Information
Specific Hazards	Combustible liquid. 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.
Hazardous Thermal Decomposition Products	Decomposition products may include carbon dioxide, carbon monoxide, various hydrocarbons, aldehydes and soot.

Special Protective Actions and Equipment

Property	Specification / Information
Special Protective Actions for Fire-Fighters	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 the fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special Protective Equipment for Fire-Fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	Not considered explosive based on chemical structure and oxygen balance considerations.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedure	Wear protective clothing as described in Section 8 of this safety data sheet
Enviromental Precaution	Avoid discharge to the aquatic environment.
Methods and materials for containment and cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

7. Handling and Storage

Precautions for safe handling	Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wash hands after handling.
Conditions for safe storage, including any incompatibilities	Store in tightly closed original container in a dry, cool and well-ventilated place
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

8. Exposure controls and personal protection

Control parameters	BUTYL GLYCOL WEL 25 ppm 50 ppm Sk POTASSIUM HYDROXIDE WEL 2 mg/m3 PROPAN-2-OL WEL 400 ppm 999 mg/m3 500 ppm 1250 mg/m3
Engineering measures	Provide adequate ventilation.
Respiratory equipment	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Personal Protection	**Eye protection :** Wear approved safety goggles. **Hand protection :** Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. **Skin protection :** Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing **Respiratory protection :** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	Wash hands after handling. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.



Gloves



Suit

9. Physical and chemical properties

Property	Specification / Value
Appearance	Liquid, Clear
Physical State	Liquid
Color	Colorless
Odor	Characteristic
Odor Threshold	Not available
pH	Not applicable
Melting Point / Freezing Point	Not available
Boiling Point	183 to 216°C (361.4 to 420.8°F) [ISO 3405]
Flash Point	Closed Cup: 66°C (150.8°F) [ASTM D 93]
Evaporation Rate	78 (Ether, anhydrous = 1)
Flammability	Slightly flammable in the presence of open flames, sparks and static discharge. Non-flammable in the presence of heat.
Lower Explosive / Flammable Limit	0.6%
Upper Explosive / Flammable Limit	7%

Vapor Pressure	0.038 kPa (0.28502 mm Hg)
Vapor Density	Not available
Relative Density	0.807 [ISO 12185]
Density	0.807 g/cm³ at 15°C [ISO 12185]
Solubility in Water	Not soluble
Miscible with Water	No
Partition Coefficient: n-Octanol/Water	Not applicable
Auto-Ignition Temperature	>230°C (>446°F) [ASTM E 659]
Decomposition Temperature	Not available
Viscosity	Kinematic at 40°C (104°F): 1.5 mm²/s (1.5 cSt) [ISO 3104]
Flow Time (ISO 2431)	Not available
Particle Characteristics	Not applicable
Median Particle Size	Not applicable

10. Stability and reactivity

Property	Specification / Value
Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical Stability	Stable under recommended storage and handling conditions (see Section 7).
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Heat, open flames, sparks and static discharge.
Incompatible Materials	Reactive or incompatible with **strong acids** and **strong oxidizing agents**.

Property	Specification / Value
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute Toxicity

Product / Substance	Result	Species	Dose	Exposure	Test Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	LC50 – Inhalation, Vapor	Rat	>5,000 mg/m³ (Read across)	4 hours	OECD 403
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	LD50 – Dermal	Rabbit	>5,000 mg/kg (Read across)	—	OECD 402
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	LD50 – Dermal	Rabbit	>2,000 mg/kg	—	OECD 402 – Acute Dermal Toxicity
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	LD50 – Oral	Rat	>5,000 mg/kg (Read across)	—	OECD 401

Irritation / Corrosion

Exposure Route	Conclusion
Skin	Based on available data, the classification criteria are not met.
Eyes	Based on available data, the classification criteria are not met.
Respiratory	Based on available data, the classification criteria are not met.

Sensitization

Type	Conclusion
Skin	Based on available data, the classification criteria are not met.
Respiratory	Based on available data, the classification criteria are not met.

Mutagenicity, Carcinogenicity & Reproductive Toxicity

Toxicological Endpoint	Conclusion
Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive Toxicity	Based on available data, the classification criteria are not met.
Teratogenicity	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity – Single Exposure	Not available. Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity – Repeated Exposure	Not available. Based on available data, the classification criteria are not met.

Aspiration Hazard

Name	Result
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	**ASPIRATION HAZARD – Category 1**

Conclusion / Summary

Based on available data, the classification criteria are met.

Information on Likely Routes of Exposure

Route of Exposure	Potential Health Effect
Eye Contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Ingestion	**May be fatal if swallowed and enters airways.**

Symptoms Related to Physical, Chemical and Toxicological Characteristics

Route of Exposure	Symptoms
Eye Contact	No specific data.
Inhalation	No specific data.
Skin Contact	No specific data.
Ingestion	Adverse symptoms may include nausea or vomiting.

Delayed and Immediate Effects / Chronic Effects

Exposure Duration	Potential Immediate Effects	Potential Delayed Effects
Short-Term Exposure	Not available.	Not available.
Long-Term Exposure	Not available.	Not available.

Potential Chronic Health Effects

Health Effect	Assessment
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Reproductive Toxicity	No known significant effects or critical hazards.

Numerical Measures of Toxicity

Parameter	Result
Acute Toxicity Estimates	N/A

12. Ecological information

Toxicity

Product / Substance	Result	Species	Exposure	Test Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	Acute EC50 > 1,000 mg/L	Algae – *Pseudokirchnerella subcapitata*	72 hours	OECD 201
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	Acute EC50 > 1,000 mg/L	Daphnia – *Daphnia magna*	48 hours	OECD 202
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	Acute NOELR 1,000 mg/L	Algae – *Pseudokirchnerella subcapitata*	72 hours	OECD 201
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	Chronic NOELR 0.18 mg/L	Daphnia – *Daphnia magna*	21 days	—
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	Chronic NOELR 0.1 mg/L	Fish – *Oncorhynchus mykiss*	28 days	—

Persistence and Degradability

Product / Substance	Test	Result	Dose	Inoculum	Exposure
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	OECD 301 F	80% – Readily biodegradable	—	—	28 days

Aquatic Half-Life / Photolysis / Biodegradability

Product / Substance	Aquatic Half-Life	Photolysis	Biodegradability
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, 2% aromatics	—	—	Readily biodegradable

Bioaccumulative Potential

Parameter	Result
Bioaccumulative Potential	Not available.

Mobility in Soil

Parameter	Result
Soil/Water Partition Coefficient (KOC)	Not available.
Mobility in Soil	Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water.

Other Adverse Effects

Parameter	Result
Other Adverse Effects	No known significant effects or critical hazards.

13. Disposal considerations

General information	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
Waste treatment methods	Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply
with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
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.
Empty containers or liners may retain some product residues. 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

Hazard Pictograms:

UN Number	Not applicable.
Proper shipping name	Not applicable
Packing group	
Transport hazard class(es	Not applicable
Packing group	Not applicable.
Environmental hazards	
Environmental hazards	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

15. Regulatory information

Regulations	
Statutory Instruments	Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Approved Code Of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes	Workplace Exposure Limits EH40
EU Legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Chemical safety assessment	No chemical safety assessment has been carried out.

16. Other information

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.