Material Safety Data Sheet

Cloud Point Improvers (RXSOL-41-8977-025)

1. Product and Company Identifaction

Product Name	Cloud Point Improvers
Product Code	RXSOL-41-8977-025

Company Details:

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

Component	CAS No	EC No.	Weight %	Classfication
1,2,4-trimethyl benzene	95-63-6	202-436-9	5-10	Flammable Liquid Category 3, Acute
Naphthalene	91-20-3	202-049-5	25-1	Carcinogenicity Category 2,
Hydrocarbons; C10, Aromatics, >1% naphtalene	64742-94-5*	265-198-5	5-10	Specific target organ toxicity - single exposure Category 3 (narcotic effects),
Hydrocarbones, C10, aromatics, 1% naphtalene*	Not Available	918-811-1	50-70	Specific target organ toxicity - single exposure Category 3 (narcotic effects),

3. Hazards Identification

Eye Contact	If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

4. First Aid Measures

NOTE TO PHYSICIANS	Treat by observation and supportive measures as indicated by the patients condition.
IF SWALLOWED	Rinse mouth. Do NOT induce vomiting (P301+P330+P331). Immediately call a POISON CENTER or doctor/physician (P310). Give water or milk to drink. Preferably with active carbon.
IF ON SKIN	Wash with plenty of soap and water (P302+P352). Take off contaminated clothing and wash before reuse (P362).
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice/attention (P337+P313).
Most important symptoms and effects, both acute and delayed	In cases of severe exposure, headache may develop In cases of severe exposure, nausea/vomiting may develop Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis Causes eye irritation (H320). The ingestion of significant quantities may cause chemical oedema
Indication of any immediate medical attention	No information available Treat symptomatically

5. Fire-fighting Measures

Extinguishing media	In case of fire: use carbon dioxide or dry agent for extinction (P370+P378) In case of fire: use dry powder/BCF for extinction (P370+P378) In case of fire: use dry sand or dry salt for extinction (P370+P378)
Special hazards arising from the substance or mixture	May form explosive mixtures with air In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback In case of fire: (P370) .Carbon dioxide may be formed. Carbon oxides may be formed
Advice for firefighters	In the event of an adjacent fire, cool containers with water spray . Prevent run off water from entering drains if possible Wear chemical protection suit and positive-pressure breathing apparatus

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear protective clothing as per section 8.
Environmental precautions	Avoid scattering in the environment Do not allow to enter public sewers and watercourses.
Methods for Containment and Clean Up	Keep away from heat/sparks/open flames/hot surfaces. – No smoking (P210). Shut off all ignition sources Absorb spillage in earth or sand Absorb spillage in dry sand Absorb spillage in inert material and shovel up Place in sealable container Seal containers and label them Remove contaminated material to safe location for subsequent disposalVentilate the area and wash spill site after material pick-up is complete
Reference to other sections	See Section 13.

7. Handling and Storage

Precautions for safe handling	Avoid breathing dust/fume/gas/mist/vapours/spray (P261). Do not get in eyes, on skin, or on clothing (P262). Ensure adequate ventilation Eyewash bottles should be available Keep away from sources of ignition - No Smoking (S16) Use personal protective equipment as required (P281). Wash contaminated clothing before reuse (P363). Wash hands and working surfaces thoroughly after handling (P264).
Conditions for safe storage, including any incompatibilities	Store in a dry place. Store in a closed container (P402+P404). Store in a well-ventilated place (P403).
Specific end use(s)	Contact supplier for further information.

8. Exposure controls and personal protection

Engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
Eye and face protection	Safety glasses with side shields. Chemical goggles.Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and.has to be observed when making a final choice.
Body protection	See Other protection below
Other protection	Overalls. P.V.C. apron.



Gloves



Suit

9. Physical and chemical properties

Physical State	Liquid
Odour	Characteristic
Odour Threshold	Not determined
pH	Not Applicable
Melting point/freezing point	Not Applicable
Boiling Point/Range	No data available
Flash point	~62
Evapouration rate	No information available
Flammability (solid, gas)	Upper No data available Lower No data available
Vapour pressure	0.1
Vapour density	Not applicable Solid
Water Solubility	Immiscible
Relative density (Water = 1)	0.9
Partition coefficient; n-octanol/water	No Data Available
Autoignition Temperature	No Data Available
Decomposition Temperature	No Data Available
Viscosity	~10
Molecular weight (g/mol)	Not Available
Explosive Properties	Not determined
Oxidizing Properties	see section 2
Surface Tension (dyn/cm or mN/m)	Not Available
Volatile Component (%vol)	Not Available
Gas group	Not Available
pH as a solution (1%)	Not Available
VOC g/L	Not Available

10. Stability and reactivity

ReactiveHazard	This article is considered stable under normal conditions

Chemical stability	Considered stable under normal conditions
Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose
Conditions to avoid	Keep away from heat and sources of ignition
Incompatible materials	Not applicable
Hazardous decomposition products	Decomposition products may include carbon oxides.

11. Toxicological information

Information on toxicological effects	LD50 (oral,rat) (Hydrocarbones) >2000 mg/kg
Contact with eyes	Causes irritation
Contact with skin	Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
Ingestion	Aspiration into the lungs may cause chemical pneumonia.
Inhalation	In cases of severe exposure, dizziness, confusion, headache or stupor may develop In cases of severe exposure, nausea/vomiting may develop

12. Ecological information

Toxicity	This product contains components which are classified in the EU as dangerous for the environment.
Persistence and degradability	Hydrocarbonsolvents expected to be inherently biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulative potential	Hydrocarbon solvents have the potential to bioaccumilate.
Mobility in soil	Hydrocarbonsolvents floats on water. Adsorbs to soil and is not mobile. Partly evaporates from water and soil surfaces, but a significant portion will remain after one day. Large volumes may penetrate soil and could contaminate groundwater.
Results of PBT and vPvB assessment	Not a PBT according to REACH Annex XIII
Other adverse effects	Not applicable.

13. Disposal considerations

Waste from Residues / Unused Products	Disposal should be in accordance with local, state or national legislation Dispose of contents/container to an authorised waste collection point (P501)
Classification	EU Waste class: 07 01 04

14. Transport information

Land transport (ADR)

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphta, heavy arom. mixture)
Hazard Class	9
Packing Group	III
Special precautions for user	No
Environmental hazards	Environmentally hazardous

Air transport (ICAO-IATA / DGR)

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphta, heavy arom. mixture)
Hazard Class	9
Packing Group	III

Special precautions for user	No
Environmental hazards	Environmentally hazardous

Sea transport (IMDG-Code / GGVSee)

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphta, heavy arom. mixture)
Hazard Class	9
Packing Group	III
Special precautions for user	No
Environmental hazards	Environmentally hazardous

Inland waterways transport (ADN)

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphta, heavy arom. mixture)
Hazard Class	9
Packing Group	III
Special precautions for user	No
Environmental hazards	Environmentally hazardous

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	1,2,4-TRIMETHYL BENZENE IS FOUND ON THE FOLLOWING REGULATORY LISTS
Chemical safety assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.