# Material Safety Data Sheet

**DRY CLEANING PRE SPRAY** (RXSOL-41-8844-025)

## 1. Product and Company Identifaction

| | |
|---|---|
| Product Name | **DRY CLEANING PRE SPRAY** |
| Product Type | **RXSOL-41-8844-025** |

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

| | |
|---|---|
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| Email | mail@rxmarine.com |

## 2. Composition / informationon ingredients

| HAZARDOUS INGREDIENTS: | OSHA PEL | TLV |
|---|---|---|
| Odorless Mineral Spirits (CAS# 64742-48-9) | 300 ppm | N/D |
| Glycol Ether DPM (CAS# 34590-94-8 ) | 100 ppm | 100 ppm |
| Delimonene (CAS #5989-27-5) | | |

## 3. Hazards Identification

**POTENTIAL PHYSICAL / CHEMICAL EFFECTS**

Combustible. Material can release vapors that readily form flammable mixtures. Vapor accumulation could flash and/or explode if ignited. Material can accumulate static charges which may cause an incendiary electrical discharge.

**POTENTIAL HEALTH EFFECTS**

Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat, and lungs. ENVIRONMENTAL HAZARDS May cause long-term adverse effects in the aquatic environment.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## 4. First Aid Measures

**INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**SKIN CONTACT :** Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**EYE CONTACT :** Flush thoroughly with water. If irritation occurs, get medical assistance.

**INGESTION :** Seek immediate medical attention. Do not induce vomiting.

**NOTE TO PHYSICIAN:** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## 5. Fire-fighting Measures

**FLAMMABILITY PROPERTIES :** Flash Point :130º F

**EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Inappropriate Extinguishing Media: Straight Streams ofWater

**FIRE FIGHTING**

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel. Unusual Fire Hazards: Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Hazardous material. Firefighters should consider protective equipment indicated in Section 8. Hazardous Combustion Products: Incomplete combustion products, Oxides of carbon, Smoke, Fume

## 6. Accidental Release Measures

**PROTECTIVE MEASURES**

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

**SPILL MANAGEMENT**

Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

## 7. Handling and Storage

**HANDLING**

Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Static

**Accumulator:** This material is a static accumulator.

**STORAGE**

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

## 8. Exposure controls and personal protection

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator.

**Hand Protection:** The types of gloves to be considered for this material include: If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## 9. Physical and chemical properties

| | |
|---|---|
| Physical State: | Clear Liquid |
| Color: | Colorless |
| Odor: | slight citrus |
| Density: | .8269 |
| Boiling Point: | 346º to 406º F |
| pH: | N/A |
| Solubility in Water: | Partial |

## 10. Stability and reactivity

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Avoid heat, sparks, open flames and other ignition sources.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. Toxicological information

Odorless Mineral Spirits

Acute Toxicity

Route of Exposure Conclusion / Remarks

**Inhalation Toxicity:** Data available. Minimally Toxic. Based on test data for the material.

**Irritation:** Data available. Negligible hazard at ambient/normal handling temperatures. Based on test data for structurally similar materials.

**Ingestion**

**Toxicity:** LD50 > 10000 mg/kg Minimally Toxic. Based on test data for the material.

**Skin Toxicity:** LD50 > 3160 mg/kg Minimally Toxic. Based on test data for the material.

**Irritation:** Data available. Mildly irritating to skin with prolonged exposure. Based on test

data for the material.

**Eye Irritation:** Data available. May cause mild, short-lasting discomfort to eyes. Based on test data for the material.

**Chronic/Other Effects**

For the product itself: Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.

Prolonged and/or repeated skin contact with low viscosity materials may defat the skin

resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or fromvomiting may cause chemical pneumonitis or pulmonary edema.

**Glycol Ether DPM**

**Acute Toxicity**

Ingestion LD50, Rat 5,135 mg/kg Skin Absorption LD50, Rabbit > 20 ml/kg Inhalation LC50, 7 h, Aerosol, Rat > 500 ppm Skin Sensitivity Did not cause allergic skin reactions when tested in humans

**Acute Toxicity**

Orange terpenes have been shown to have low oral toxicity (LD50>5 g/kg) and low dermal toxicity (LD50> 5g/kg) when tested on rabbits. Orange terpenes also showed low toxicity by inhalation (RD50>1 g/kg) when tested on mice. The skin irritancy of limonene in guinea pigs and rabbits is considered moderate and low, respectively. Inhalation may cause irritation of the nose, throat, and respiratory tract. Chronic/Other Effects D-Limonene is not classified as a carcinogen by OSHA, IARC, ACGIH or NTP. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins. Prolonged or repeated exposure can cause drying or dermatitis of skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

## 12. Ecological information

**Odorless Mineral Spirits Ecotoxicity**

**Material** -- May cause long-term adverse effects in the aquatic environment.

**Persistence/Degradability**

**Biodegradation**: Material -- Expected to be readily biodegradable.

**Hydrolysis**: Material -- Transformation due to hydrolysis not expected to be significant.

**Photolysis:** Material -- Transformation due to photolysis not expected to be significant.

**Atmospheric Oxidation:** Material Expected to degrade rapidly in air.

**Glycol Ether DPM**

Material is readily biodegradable. Material is practicallynon-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested.

**Delimonene Ecotoxicity**

There is no information available at this time for D-limonene.

However, a spill may produce significant toxicity to aquatic organisms and ecosystems.

Sonic studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing their toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water.

**Persistence/Degradability**

D-Limonene is expected to be readily biodegradable.

**Bioaccumulation/Accumulation:** No appreciable bioconcentration is expected in the environment. Mobility in Environment: Orange terpenes volatilize rapidly.

## 13. Disposal considerations

**REGULATORY DISPOSAL INFORMATION**

**RCRA Information:**

Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: IGNITABILITY. Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue

and can be dangerous. Do not attempt to refill or clean containers without proper instructions.

Do not dispose of on the land, in surface waters, or in storm drains. Spills of any quantity should be collected for reuse or consigned to a licensed hazardous waste hauler for disposal in accordance with federal, state and local regulations. All disposal must be in accordance with all federal, state and local regulations.

## 14. Transport information

Information should be verified against current publications to ensure regulatory compliance.

**DOT Hazard Class:** Consumer Commodity; ORM-D

ICAO/IATA: UN1933; Flammable Liquid, NOS (Odorless Mineral Spirits); 3; PG III Check for limited quantity criteria IMDG: UN1933; Flammable Liquid, NOS (Odorless Mineral Spirits); 3; PG III

Check for limited quantity criteria

## 15. Regulatory information

**US Federal Regulations:**

All components are listed on TSCA

**CWA / OPA:** This product is classified as an oil under Section 311 of the CleanWater Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface water, must bebreported to the National Response Center at 800-424-8802.

## 16. Other information

This product has no established regulatory information. All regulatory information given is based on individual components of the mixture by component number. While this information and recommendations set forth herein are believed to be accurate and reliable, it is provided without warranty regarding its accuracy. BRIDGEPOINT SYSTEMS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON. Users must determine safe conditions for use and assume liability for any loss, injury, damage or expense resulting from use of this product.

N/A= Not applicable N/D= Not determined N/E= Not established