

SECTION 1: IDENTIFICATION

Product Identifier

Product Name	Product Form	Product Code
RHOMA-SOL™	Liquid	RH-625

Relevant identified uses of the substance or mixture:

Specialty cleaner for removing tar, asphalt, graffiti, adhesives, etc.

Details of the supplier of the safety data sheet

Rhomar Industries, Inc.
 2107 E. Rockhurst St.
 Springfield, MO 65802 USA
 T 417-866-5592; F 417-866-5593
solutions@rhomar.com

Emergency telephone number

1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Skin Corrosion/Irritation (Category 2)
 Serious eye damage/eye irritation (Category 2)

Hazard Statements:

Harmful if swallowed
 Causes skin irritation
 Causes severe eye irritation

Precautionary Statements
Prevention:

Wash face, hands and any exposed skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep container tightly closed. Contaminated clothing should not be allowed out of the workplace.

Response:

General: If exposed or concerned, get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

Skin/Hair Contact: If skin irritation occurs, get medical advice/attention. Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Ingestion: Immediately call a Poison Center or doctor/physician. Do not induce vomiting. Rinse mouth.

Storage:

Store locked up in a cool, dry, well-ventilated place. Keep out of reach of children. Keep unused container tightly closed and in upright position.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Other Hazards:

None known.



Signal Word:
 Warning

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	CAS #	Weight %
D-Limonene	5989-27-5	25-50
2Butoxyethanol	111-76-2	10-20
N, N-Dimethyl 9-decenamide	1356964-77-6	0-10
Proprietary Emulsifier	Proprietary	25-50

The balance of ingredients are not classified as hazardous to health or the environment. The specific chemical identity and/or exact percentage has been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

First Aid Measures

General Advice: If exposed or concerned, get medical advice/attention.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if irritation occurs.

Eye Contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention.

Ingestion: Drink 1-2 glasses of water and immediately call poison control center or doctor for treatment advice.

Skin Contact: If on skin, wash with plenty of soap and water. Get medical attention if irritation occurs.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms: Harmful if swallowed. May be harmful if absorbed through the skin. Irritation to skin and eyes. Irritation by inhalation. Prolonged or repeated exposure can cause drying, defatting, and dermatitis of skin. Absorption through skin contact may be hazardous.

Indication of any Immediate Medical Attention and Special Treatment Needed: Note to Physicians, Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, Carbon Dioxide, water spray fog, alcohol resistant foam

Unsuitable Extinguishing Media: Water spray may be inefficient

Specific Hazards Arising from the Chemical: Keep away from heat, sparks, and flame. Guard against spontaneous combustion of improperly discarded oily rags.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide (CO₂), Thermal decomposition can lead to release of irritation and toxic gasses and vapors.

Sensitivity to Static Discharge: Take precautionary measures against static discharge.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved ore equivalent) and full protective gear. Firefighters should wear self-contained breathing apparatus. Smother to exclude air. Do not use water. Handle as an oil fire, Class B fire procedures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from up wind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewers.

Methods and Material for Containment and Cleaning Up: Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Absorb spilled material with inert material such as sand or sawdust and sweep up. Do not hose spills down drains, sewers, or waterways. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling**Advice on Safe Handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when handling this product. Wear protective gloves/protective clothing and eye/face protection. Ground/bond container and receiving equipment. Use non-sparking tools. Use explosion proof equipment. Wash face, hands, and any exposed skin thoroughly after handling. Guard against spontaneous combustion of improperly discarded oily rags.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store locked up. Store away from incompatible materials. Store in a well ventilated area at temperature below 50°F. Keep container tightly closed in an upright position. Store product in properly labeled container, away from sources of ignition.

Incompatible Materials: Strong oxidizing agents, acidic agents

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	CAS #	ACGIH – TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol	111-76-2	TWA: 20ppm 100mg/m ³	TWA: 50ppm TWA: 240 mg/m ³	TWA: 5ppm TWA: 24 mg/m ³

Appropriate Engineering Controls

Engineering Controls: Good general ventilation (local exhaust) should be sufficient, eyewash stations, showers.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Splash proof chemical safety goggles.

Skin and Body Protection: Oil resistant gloves, oil resistant apron.

Respiratory Protection: Under normal circumstances, no protective equipment is needed. If vapor concentration becomes high, use NIOSH approved respirators.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Take off all contaminated clothing and wash it before reuse. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Color	Orange		
pH	Not an aqueous solution	Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	Not determined	Flash Point	>115°F
Evaporation Rate	0.2 (butyl acetate =1)	Flammability (Solid, Gas)	N/A – Liquid
Upper Flammable Limits	6.1%	Lower Flammable Limits	0.7%
Vapor Pressure	Not determined	Vapor Density	Not determined
Specific Gravity	0.863	Water Solubility	Insoluble in water
Partition Coefficient	Not determined	Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined	Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined	Explosive Properties	Keep away from heat, sparks and open flames
Oxidizing Properties	Not determined	Odor	Citrus
Odor Threshold	Not determined	Solubility in Other Solvents	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing

Hazardous Polymerization: Not determined

Conditions to Avoid: Excessive heat, sparks and flames. Incompatible materials.

Incompatible Materials: Strong oxidizing agents, acidic agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide (CO₂). Smoke may be acrid and fumes irritating.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing vapors or mist.

Eye Contact: Causes severe eye irritation

Skin Contact: Causes skin irritation. May be absorbed through skin contact.

Ingestion: Do not taste or swallow. Harmful if swallowed.

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
D-Limonene	5989-27-5	4400 mg/kg (Rat)	>5 g/kg (Rabbit)	--
2-Butoxyethanol	111-76-2	745 mg/kg (Rat)	1250 mg/kg (Rat)	550ppm (Rat) 4 h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes severe eye irritation.

Carcinogenicity: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or OSHA classification.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity: Product Information.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
D-Limonene 5989-27-5		LC50: flow-through Pimephales promelas 0.619 - 0.796 mg/L 96 h LC50: Oncorhynchus mykiss 35 96 h mg/L		
2-Butoxyethanol 111-76-2	EC50: Pseudokirchneriella subcapitata 911 mg/l 72h	LC50: Oncorhynchus mykiss 1474 mg/l 96 h		EC50: Daphnia magna 1800 mg/L 48 h

Persistence and Degradability: Not determined

Bioaccumulation: Not determined

Mobility: Not determined

Other Adverse Effects: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container.

SECTION 14: TRANSPORT INFORMATION

Note:

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

12/Qt Cases and 4/Gal Cases do not require label/placard for US Ground Transportation, CFR 173.150 applies.

UN/ID No: UN2319
Proper Shipping Name: Terpene Hydrocabons, N.O.S.
Hazard Class: 3
Packing Group: III

IATA

UN/ID No: UN2319
Proper Shipping Name: Terpene Hydrocabons, N.O.S.
Hazard Class: 3
Packing Group: III

IMDG

UN/ID No: UN2319
Proper Shipping Name: Terpene Hydrocabons, N.O.S.
Hazard Class: 3
Packing Group: III

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Listed
 DSL Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

No ingredients of this product contain chemical(s) that are subject to reporting levels established by SARA Title III, section 313.

US State Regulations

US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol	X	X	X

SECTION 16: OTHER INFORMATION

Prepared Date: 9/13/2017

NFPA Ratings:

Health:	1
Flammability	1
Instability	0
Special Hazards:	Not determined

HMIS Ratings:

Health:	1
Flammability:	1
Reactivity:	0
Personal Protection:	B

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

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