



# DATASHEET

## TRI-SOLV

### DESCRIPTION:

Highly biodegradable oil-based cutter solvent. TRI-SOLV is comprised of biodegradable solvents which remove a host of substances. Non-toxic and very user friendly. Excellent for the removal of paints, dyes, latex, creosote, resins, #6 Oil, paraffins and many more. Pleasant citrus fragrance.

### PRODUCT USES & APPLICATIONS

- Tank Cleaning
- Equipment Decontamination
- Line Cleaning
- Substance Removal
- Equipment Decontamination

### APPLICATION INSTRUCTIONS

Dilution Rate Does not dilute with water  
Application Methods Spray system, 3D nozzles, spinner

**Additional Instructions:** Allow product to soak into set-up substances for as long as possible. Rinse with warm/hot water to remove product more easily.

### HAZARDOUS INFORMATION

|                   |                       |
|-------------------|-----------------------|
| Specific Hazard   | Eye and skin irritant |
| Flash Point (°F)  | 120°                  |
| Biodegradability  | Excellent             |
| pH                | N/A for oils          |
| Unusual Hazards   | None                  |
| Other Information | Combustible liquid    |

### PACKAGING INFORMATION

|                      |                      |
|----------------------|----------------------|
| Available Quantities | 5,30,55,275 and bulk |
| Packaging Material   | Poly                 |

### CASE STUDY & APPLICATION INFO:

#### May 27, 2007: Chemical Storage Facility Pasadena, TX

TRI-SOLV was used to remove heavy oils from an AST. This product was sprayed in through the man ways and allowed to soak in for 1 day. High pressure water was used after the 2 days to remove the residues. TRI-SOLV did an excellent job in removing the oils and providing acute odor control for the hydrocarbon odors. TRI-SOLV has a pleasant citrus fragrance which masked the hydrocarbon odors during the tank cleaning activities.

#### March 3, 2008: Manufacturing Facility Houston, TX

TRI-SOLV was used to clean resins that build up from a process. These resins accumulated on the floor near the unit. The previous solvent they used worked but made people in the building sick. TRI-SOLV was used because it worked well and actually has a pleasant citrus smell, which was pleasant to the workers.



## GHS SAFETY DATA SHEET 'TRI-SOLV'

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... TRI-SOLV  
 Chemical Use..... Oil-Based Stripping Agent  
 Chemical Family..... Mixture  
 Issue Date of SDS..... May 23, 2014  
 Revision Date of SDS..... 1/31/2022

**MANUFACTURER:**

**Vapor Technologies, Inc.**  
 7200 Williams Street  
 Hitchcock, TX 77563  
 (409) 316-0173  
[www.vapor-tech.net](http://www.vapor-tech.net)

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

| <u>Health</u>                           | <u>Environmental</u> | <u>Physical</u>                 |
|---|----------------------|---------------------------------|
| Acute Toxicity-Oral<br>Category 4       | None Known           | Flammable Liquids<br>Category 4 |
| Skin Corrosion/Irritation<br>Category 3 |                      |                                 |
| Eye Damage/Irritation<br>Category 2B    |                      |                                 |

**GHS LABEL:**

**SIGNAL WORD:**

**WARNING**



GHS07 Irritant

**Hazard Statements**

H227: Combustible Liquid.  
 H302: Harmful if swallowed.  
 H316: Causes mild skin irritation.  
 H320: Causes eye irritation.

**Precautionary Statements**

P210: Keep away from flames and hot surfaces. No Smoking.  
 P264: Wash hands thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P280: Wear protective gloves/eye protection/face protection.  
 P301 + P312: If swallowed: Call a POISON CENTER or doctor/physician 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.  
 P330: Rinse mouth.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P370 + P378: In case of fire: Use foam, carbon dioxide or water spray for extinction.  
 P403 + P235: Store in a well ventilated place. Keep cool.  
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

|                | <u>NFPA</u> |
|----------------|-------------|
| Health         | 1           |
| Flammability   | 2           |
| Reactivity     | 0           |
| Special Notice | -           |

| <u>HMIS</u> |                 |  |
|-------------|-----------------|--|
| 1           | Health          | 0 - Minimal  |
| 2           | Flammability    | 1 - Slight   |
| 0           | Physical Hazard | 2 - Moderate   |
| G           | PPE             | 3 - Serious  |
|             |                 | 4 - Severe   |
|             |                 | G - Safety Glasses, Gloves & Vapor<br><br>Respirator |

| INGREDIENTS          | CAS#       | CONCENTRATION |
|----------------------|------------|---------------|
| D-Limonene           | 5989-27-5  | 50%           |
| Mixed Methyl Esters  | 67784-80-9 | 30%           |
| Non-Ionic Surfactant | 9016-45-9  | 20%           |

**SECTION 4 - FIRST AID MEASURES**

Eye Contact..... Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

Skin Contact..... Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

Inhalation..... If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

Ingestion..... DO NOT INDUCE VOMITING! Drink one or two glasses of water and get medical attention immediately!

**SECTION 5 - FIREFIGHTING MEASURES**

Suitable Extinguishing Media: ..... Use foam, carbon dioxide, or water spray to extinguish flames.

Unsuitable Extinguishing Media:..... No further relevant information available.

Combustion Products: ..... Carbon Monoxide

Fire Fighting Instructions..... As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

**SECTION 6 - ACCIDENTAL RELEASE MEASURE**

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.

Environmental Precautions..... Prevent entry of product into drains, sewers, or surface or ground water.

Methods for Cleaning Up:..... Clean up spills immediately. Absorb spill with inert material (e.g., dry sand or earth), then place in a suitable container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Handling:..... Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing and eye protection when handling this product. Use in well ventilated areas.

Storage..... Store in cool place in original container and keep away from direct sunlight. Keep container closed when not in use.

Shelf-Life..... One to two years normally.

Storage Temperature..... 5 - 43°C (41 - 110°F)

**SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION**

| EXPOSURE LIMITS: | Component            | ACGIH (TLV) | ACGIH (STEL) | OSHA (PEL) |
|------------------|----------------------|-------------|--------------|------------|
|                  | D-Limonene           | Not Known   | Not Known    | Not Known  |
|                  | Mixed Methyl Esters  | Not Known   | Not Known    | Not Known  |
|                  | Non-Ionic Surfactant | Not Known   | Not Known    | Not Known  |

Engineering Controls..... Good general ventilation should be sufficient to control airborne levels.

**Personal Protective Equipment (PPE):**

Eye Protection..... Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

Skin Protection..... Wear chemical resistant gloves.

Respiratory Protection..... For most situations, no respiratory protection is necessary.

General Hygiene Consideration..... There are no known health hazards associated with this product when used as recommended.  
The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits..... Not established for product as whole.

**SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES**

Appearance..... Clear to slightly orange liquid.

Odor..... Orange odor.

Vapor Pressure..... Not Determined.

Vapor density..... Not Determined.

pH..... N/A for Oils.

Melting point/Freezing point:..... Not Determined.

Solubility in water..... <1%

Initial boiling point and range..... 300°F

Flash Point..... 120°F

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Determined.

Upper/Lower flammability or explosive limits:..... LFL .7%, UFL 6.1%

Auto igniting temperature..... Product is not self igniting.  
 Decomposition temperature..... Not Determined.  
 Viscosity..... Not Determined.  
 Specific Gravity (water = 1)..... .91 - .96

**SECTION 10 - STABILITY & REACTIVITY**

Reactivity..... To prevent oxidation, avoid long term exposure to air.  
 Chemical Stability..... Stable under recommended storage conditions.  
 Hazardous Polymerization..... Will not occur.  
 Incompatibilities..... Avoid strong oxidizing agents.  
 Decomposition Products..... None determined.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:**..... Inhalation, Eye and Skin Contact

**Acute symptoms and effects:**

Eye..... May cause mild irritation and burning to eyes. Rinse cautiously with water for several minutes.  
 Skin..... Prolonged or repeated exposure may cause irritation/drying of skin.  
 Ingestion..... Severe gastrointestinal effects. Rinse mouth with water. Call POISON CENTER or doctor/physician if you feel unwell.  
 Inhalation:..... Prolonged or repeated exposure may cause irritation. Call a POISON CENTER or doctor/physician if you feel unwell.  
 Chronic Exposure:..... Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Toxicity:**                    **LD50**                    **LC50**  
    Not Known            Not Known

Carcinogenicity..... Not a known carcinogen

**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity:..... Product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.  
 Mobility in soil:..... No further relevant information available.  
 Degradability:..... Expected to readily biodegrade.  
 Bioaccumulation:..... No further relevant information available.

**SECTION 13 - DISPOSAL CONSIDERATION**

TRI-SOLV is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local authorities regarding the proper disposal of this material.

**SECTION 14 - TRANSPORTATION INFORMATION**

**A. USA:**    **UN Number**..... UN1993  
                   **UN Proper Shipping Name**..... Combustible Liquids, N.O.S. (D-Limonene), 3  
                   **Packaging group**..... III  
                   **Technical Shipping Name**..... Combustible Liquids, N.O.S. (D-Limonene), 3  
                   **D.O.T. Label**..... UN1993, Combustible Liquids, N.O.S., 3  
                   **D.O.T. Placard**..... Combustible Liquid  
                   **Freight Class Package**..... Class 55

**B. CANADA:**    **TDG**..... Combustible Liquid

**C. ENGLAND:**    **Approved Carriage List**..... Combustible Liquid

**SECTION 15 - REGULATORY INFORMATION**

**A. USA:**    **TSCA Status**..... All ingredients listed on TSCA Inventory.  
                   **SARA TITLE III, 302/303 EHS**..... None  
                   **SARA TITLE III, 304 HS**..... None  
                   **SARA TITLE III, 311/312**..... None  
                   **SARA TITLE III, 313**..... None

**B. CANADA:**    **DSL/NDSL**..... All ingredients are listed.  
                   **WHMIS**..... Not Classified.

**C. EC:**        **EINECS**..... All ingredients are listed.

**SECTION 16 - OTHER INFORMATION**

For details on specific requirements, you should contact the appropriate agency in your state.

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Approval Date:        1/31/2022