SECTION 1  IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name  V-4 Solvent
Synonyms  Paraffinic Naphthenic Solvent, Aliphatic Solvent
Use  Industrial use, Industrial & Institutional cleaning, Paint and Coatings, Water treatment

Company  Solvents and Petroleum Services, Inc
Address  1405 Brewerton Rd, Syracuse, NY 13208
Telephone  Solvents and Petroleum Services, Inc (800) 315-4467
            CHEMTREC North America Transportation Emergency (24-hr) (800) 424-9300
E-mail address  mark@solventsandpetroleum.com

SECTION 2  HAZARDS IDENTIFICATION

GHS Hazards
  Flammable liquids  Category 4
  Aspiration hazard  Category 1

LABEL ELEMENTS

Hazard symbols

Signal word  Danger

Hazard statements  H227 Combustible liquid.
                  H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention  P210 Keep away from open flames/hot surfaces. - No smoking.
            P280 Wear protective gloves/ eye protection/ face protection.

Response  P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical
          or carbon dioxide for extinction.
          P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
          P331 Do NOT induce vomiting.
**Storage**  
P403 + P405 + P235  Store locked up in a well-ventilated place. Keep cool.

**Disposal**  
P501  Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated light</td>
<td>64742-47-8</td>
<td>100</td>
</tr>
</tbody>
</table>

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

### SECTION 4  FIRST AID MEASURES

**Eye contact**  
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact**  
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

**Inhalation**  
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

**Ingestion**  
If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### SECTION 5  FIREFIGHTING MEASURES

**FLAMMABLE PROPERTIES**

**Fire/explosion**  
NFPA Class IIIA combustible liquid.

**Suitable extinguishing media**  
Water spray or fog, foam, dry chemical, CO2

**Protective equipment and precautions for firefighters**  
Wear self-contained breathing apparatus and protective suit.

**Further information**  
Keep containers and surroundings cool with water spray.

### SECTION 6  ACCIDENTAL RELEASE MEASURES

**Methods and materials for containment and cleaning up**  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
SECTION 7  HANDLING AND STORAGE

Safe handling advice  Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/Transport temperature  Ambient

Storage/Transport pressure  Ambient

Load/Unload temperature  Ambient

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES  Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT

Eyes  Wear as appropriate: Goggles, Face-shield

Skin  Wear suitable protective clothing, gloves and eye/face protection.

Inhalation  Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES  Contains no substances with occupational exposure limit values., The following SPS internal standard would apply:, 100 ppm (525 mg/m3) for 8-hour TWA (Exposure limits for Petroleum Distillate - Stoddard Solvent)

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Appearance  liquid

Colour  clear

Form  liquid

Odour  hydrocarbon-like

Odour Threshold  no data available

Flash point  Average 63 °C, 145 °F; ASTM D 56;

Flammability  Upper explosion limit: 7.0 %(V)
Lower explosion limit: 0.7 % (V)

Boiling point/boiling range
192 - 211 °C, 376 - 412 °F; ASTM D-86;
ASTM D-86;

Melting point/range
< -70 °C, < -94 °F; ASTM D-2386;

Auto-ignition temperature
233 °C, 453 °F; ASTM E 659;

Decomposition temperature
no data available

Flammability (solid, gas)
no data available

Vapour pressure
0.32 mm Hg @ 20 °C, 68 °F; API Calculation;

Vapour density
5.4

Density
0.803 g/cm3 @ 15.5 °C, 60 °F; ASTM D-287;

Specific gravity
no data available

Water solubility
negligible

Viscosity
1.8 cSt @ 20 °C, 68 °F; ASTM D 445;

pH
no data available

Evaporation rate
no data available

Partition coefficient: n-octanol/water
no data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity
Stable at normal ambient temperature and pressure.

Chemical stability
No decomposition if stored and applied as directed.

Conditions to avoid
Keep away from heat and sources of ignition.

Hazardous decomposition products
Hazardous gases and vapors produced in fire are oxides of carbon.

Materials to avoid
Oxidizing agents

Hazardous polymerisation
None.
## SECTION 11 TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 rabbit: 2,000 - 4,000 mg/kg</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>LC50 rat (4 hours): &gt; 4.3 mg/l</td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 rat: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Primary irritation (rabbit): 1.2 (Max. score is 8.0.)</td>
</tr>
<tr>
<td>Eye damage/irritation</td>
<td>Primary irritation (rabbit): 1 hours; 3.0 (Max. score is 110.)</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Genotoxicity in vitro: no data available</td>
</tr>
<tr>
<td>Genotoxicity in vivo</td>
<td>no data available</td>
</tr>
<tr>
<td>Assessment Mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Reproductive toxicity: no data available</td>
</tr>
<tr>
<td>Assessment Reproductive toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Assessment teratogenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>no data available</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Assessment carcinogenicity: Contains no ingredient listed as a carcinogen</td>
</tr>
</tbody>
</table>
SECTION 12  ECOLOGICAL INFORMATION

Aquatic toxicity  Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

Toxicity to fish  no data available

Toxicity to aquatic invertebrates  no data available

Toxicity to algae  no data available

Chronic toxicity to fish  no data available

Chronic toxicity to aquatic invertebrates  no data available

Biodegradation  Readily biodegradable.

OECD Test Guideline 301F (28 d): 97 %
Test substance: LPA® 142 Solvent

Bioaccumulation  no data available

Mobility in soil  no data available

Other adverse effects  no data available

SECTION 13  DISPOSAL CONSIDERATIONS

Waste Code  Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

Disposal methods  Dispose of only in accordance with local, state, and federal regulations.

Empty containers.  Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14  TRANSPORT INFORMATION

DOT  Not regulated. Product does not sustain combustion (49 CFR 173.120(b)(3)).
IATA  Not regulated.

IMDG  Not regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

SECTION 15  REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)
Combustible liquid.

TSCA Inventory Listing

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, petroleum, hydrotreated light</td>
<td>64742-47-8</td>
</tr>
</tbody>
</table>

SARA 302 Status

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Classification
"Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US. EPA CERCLA Hazardous Substances (40 CFR 302)

<table>
<thead>
<tr>
<th>Components</th>
<th>Reportable Quantity</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS

WHMIS Classification
Class B, Division 3: Combustible liquid.

European Union
Classification according to Regulation (EU) 1272/2008.

| Aspiration hazard, Category 1 |
| Repeated exposure may cause skin dryness or cracking |

Australia. Inventory of Chemical Substances (AICS)  Listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)  Listed

Japan. Industrial Safety & Health Law (ISHL) Inventory  Listed

Canada. Domestic Substances List (DSL) Inventory  Listed

Canadian Non-Domestic Substance Listing (NDSL)  Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

Philippines. Inventory of Chemicals / Chemical Substances (PICCS) Listed
Korea. Existing Chemicals Inventory (KECI) Listed
China. Inventory of Existing Chemical Substances (IECSC) Listed
Mexico. National Inventory of Chemical Substances (INSQ) Listed
New Zealand. Inventory of Chemicals (NZIoC) Listed
Switzerland. Inventory of Notified New Substances (CHINV) Listed
Taiwan. National Existing Chemical Inventory (NECI) Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65 Components

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard/Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS®</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>NFPA</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solvents and Petroleum Service, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.