LPA®-142 Solvent

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

Trade name  LPA®-142 Solvent
Synonyms  Paraffinic Naphthenic Solvent, Aliphatic Solvent
Use  Industrial use, Industrial & Institutional cleaning, Paint and Coatings, Water treatment chemical
Company  Sasol Chemicals (USA) LLC
(an affiliate of Sasol Chemicals North America LLC)
Address  12120 Wickchester Lane   Houston TX 77079
Telephone  CHEMTREC North America Transportation Emergency (24-hr)  (800) 424-9300
CHEMTREC World Wide  (703) 527-3887
Other Emergencies (24-hr)  (337) 494-5142
MSDS and Product Information (8:00am-4:30pm CST)  (281) 588-3491
Health and Safety Information (7:30am-4:00pm CST)  (281) 588-3492
E-mail address  SasolElectronicSDS@us.sasol.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.
SAFETY DATA SHEET

LPA®-142 Solvent

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
SAFETY DATA SHEET

LPA®-142 Solvent

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 Sasol 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
LPA®-142 Solvent

**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
<table>
<thead>
<tr>
<th>Hazardous polymerisation</th>
<th>None.</th>
</tr>
</thead>
</table>

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute dermal toxicity**
- LD50 rabbit: 2,000 - 4,000 mg/kg

**Acute inhalation toxicity**
- LC50 rat (4 hours): > 4.3 mg/l
  - All rats survived at indicated concentration.

**Acute oral toxicity**
- LD50 rat: > 5,000 mg/kg

**Skin corrosion/irritation**
- Primary irritation (rabbit): 1.2 (Max. score is 8.0.)

**Eye damage/irritation**
- Primary irritation (rabbit): 1 hours; 3.0 (Max. score is 110.)

**Respiratory or skin sensitization**
- no data available

**Germ cell mutagenicity**
- Genotoxicity in vitro: no data available
- Genotoxicity in vivo: no data available
- Assessment Mutagenicity: no data available

**Reproductive toxicity**
- Reproductive toxicity: no data available
- Assessment Reproductive toxicity: no data available
- Teratogenicity: no data available
- Assessment teratogenicity: no data available

**STOT - single exposure**
- no data available

**STOT - repeated exposure**
- no data available

**Aspiration toxicity**
- May be fatal if swallowed and enters airways.

**Carcinogenicity**
- Assessment carcinogenicity: Contains no ingredient listed as a carcinogen
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 Code

Remarks  no data available

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
SAFETY DATA SHEET

LPA®-142 Solvent

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

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL CHEMICALS (USA) LLC’S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL CHEMICALS (USA) LLC CONSIDERS ACCURATE AND RELIABLE, SASOL CHEMICALS (USA) LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION
LPA®-142 Solvent

SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.