SAFETY DATA SHEET

LPA®-170 Solvent

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

<table>
<thead>
<tr>
<th>Trade name</th>
<th>LPA®-170 Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Paraffinic Naphthenic Solvent</td>
</tr>
<tr>
<td>Use</td>
<td>Industrial &amp; Institutional cleaning, Industrial use,</td>
</tr>
<tr>
<td></td>
<td>Lubricants, Oilfield Drilling</td>
</tr>
<tr>
<td>Company</td>
<td>Sasol Chemicals (USA) LLC (an affiliate of Sasol</td>
</tr>
<tr>
<td></td>
<td>Chemicals North America LLC)</td>
</tr>
<tr>
<td>Address</td>
<td>12120 Wickchester Lane   Houston TX 77079</td>
</tr>
<tr>
<td>Telephone</td>
<td>CHEMTREC North America Transportation Emergency (24-hr)</td>
</tr>
<tr>
<td></td>
<td>CHEMTREC World Wide</td>
</tr>
<tr>
<td></td>
<td>Other Emergencies (24-hr)</td>
</tr>
<tr>
<td></td>
<td>MSDS and Product Information (8:00am-4:30pm CST)</td>
</tr>
<tr>
<td></td>
<td>Health and Safety Information (7:30am-4:00pm CST)</td>
</tr>
<tr>
<td>Telephone</td>
<td>(800) 424-9300</td>
</tr>
<tr>
<td></td>
<td>(703) 527-3887</td>
</tr>
<tr>
<td></td>
<td>(337) 494-5142</td>
</tr>
<tr>
<td></td>
<td>(281) 588-3491</td>
</tr>
<tr>
<td>E-mail address</td>
<td><a href="mailto:SasolElectronicSDS@us.sasol.com">SasolElectronicSDS@us.sasol.com</a></td>
</tr>
</tbody>
</table>

SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

- Flammable liquids: Category 4
- Aspiration hazard: Category 1

LABEL ELEMENTS

Hazard symbols

Signal word

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.
LPA®-170 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**

<table>
<thead>
<tr>
<th>Fire/explosion</th>
<th>NFPA Class IIIA combustible liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable extinguishing media</td>
<td>Water spray or fog, foam, dry chemical, CO2</td>
</tr>
</tbody>
</table>

**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**
LPA®-170 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
SAFETY DATA SHEET

LPA®-170 Solvent

Flash point Average 79 °C, 174 °F; TAG;

Flammability Upper explosion limit: 7.0 % (V)
Lower explosion limit: 0.6 % (V)

Boiling point/boiling range 213 - 232 °C, 416 - 449 °F; ASTM D-86;

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

Auto-ignition temperature 231 °C, 448 °F; ASTM E 659;

Decomposition temperature no data available

Flammability (solid, gas) no data available

Vapour pressure 0.05 mm Hg @ 20 °C, 68 °F; ASTM D 2879-86;

Vapour density 5.9

Density 0.810 g/cm3 @ 15.5 °C, 60 °F; ASTM D-287;

Specific gravity no data available

Water solubility negligible

Viscosity 2.4 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
### LPA®-170 Solvent

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

#### SECTION 11  
**TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Acute dermal toxicity</th>
<th>LD50 rabbit: 2,000 - 4,000 mg/kg</th>
</tr>
</thead>
</table>
| Acute inhalation toxicity | LC50 rat (4 hours): > 6.8 mg/l  
All rats survived at indicated concentration. |
| Acute oral toxicity | LD50 rat: > 5,000 mg/kg |
| Skin corrosion/irritation | Primary irritation (rabbit): 2.2 (Max. score is 8.0.) |
| Eye damage/irritation | Primary irritation (rabbit): 3.3 (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): 85 %
Test substance: LPA® 170 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
Components Distillates, petroleum, hydrotreated light  CAS-No. 64742-47-8

SARA 302 Status
Components CAS-No. Weight percent
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

SARA 313 Chemical
Components CAS-No. Weight percent
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.

US. EPA CERCLA Hazardous Substances (40 CFR 302)
Components Reportable Quantity Weight percent
none

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) List
LPA®-170 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></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>

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