SAFETY DATA SHEET

LPA®-210 Solvent

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

Trade name  LPA®-210 Solvent
Synonyms   Paraffinic Naphthenic Solvent
Use         Industrial & Institutional cleaning, Industrial use, Lubricants, 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

Aspiration hazard  Category 1

LABEL ELEMENTS

Hazard symbols

Signal word  Danger

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

Precautionary statements

Response
P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331  Do NOT induce vomiting.

Storage  P405  Store locked up.

Disposal  P501  Dispose of contents/container to an approved waste disposal plant.
SAFETY DATA SHEET

LPA®-210 Solvent

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.
- **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 III B combustible liquid.
- **Suitable extinguishing media**: Water spray, Foam, Dry chemical, Carbon dioxide (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.
LPA®-210 Solvent

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 Water-white to straw-yellow
Form liquid
Odour Hydrocarbons
Odour Threshold no data available
Flash point Average 109 °C, 229 °F; ASTM D 93;
Flammability
Upper explosion limit: 7.0 %(V)
Lower explosion limit: 0.5 %(V)
Boiling point/boiling range 239 - 276 °C, 464 - 528 °F; ASTM D-86;
**SAFETY DATA SHEET**

**LPA®-210 Solvent**

**Melting point/range**  &lt; -68 °C, &lt; -90 °F; ASTM D-2386;

**Auto-ignition temperature**  216 °C, 421 °F; ASTM E 659;

**Decomposition temperature** no data available

**Flammability (solid, gas)** no data available

**Vapour pressure** 0.02 mm Hg @ 20 °C, 68 °F; API Calculation;

**Vapour density** 6.7

**Density** 0.821 g/cm³ @ 15.5 °C, 60 °F; ASTM D-4052;

**Specific gravity** no data available

**Water solubility** negligible

**Viscosity** 4.1 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**

**Additional Remarks** The product itself has not been tested.
**SAFETY DATA SHEET**

**LPA®-210 Solvent**

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td>LD50 rabbit: 2,000 - 4,000 mg/kg</td>
</tr>
<tr>
<td><strong>Acute inhalation toxicity</strong></td>
<td>LC50 rat (4 hours): &gt; 0.5 mg/l All rats survived at indicated concentration.</td>
</tr>
<tr>
<td><strong>Acute oral toxicity</strong></td>
<td>LD50 rat: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Primary irritation (rabbit): 3.7 (Max. score is 8.0.)</td>
</tr>
<tr>
<td><strong>Eye damage/irritation</strong></td>
<td>Primary irritation (rabbit): 3.3 (Max. score is 110.)</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>Genotoxicity in vitro: no data available</td>
</tr>
<tr>
<td></td>
<td>Genotoxicity in vivo: no data available</td>
</tr>
<tr>
<td></td>
<td>Assessment Mutagenicity: no data available</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>Reproductive toxicity: no data available</td>
</tr>
<tr>
<td></td>
<td>Assessment Reproductive toxicity: no data available</td>
</tr>
<tr>
<td></td>
<td>Teratogenicity: no data available</td>
</tr>
<tr>
<td></td>
<td>Assessment teratogenicity: no data available</td>
</tr>
<tr>
<td><strong>STOT - single exposure</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>STOT - repeated exposure</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Aspiration toxicity</strong></td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>Assessment carcinogenicity: Contains no ingredient listed as a carcinogen</td>
</tr>
</tbody>
</table>

**SECTION 12 ECOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aquatic toxicity</strong></td>
<td>Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.</td>
</tr>
<tr>
<td><strong>Toxicity to fish</strong></td>
<td>no data available</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

LPA®-210 Solvent

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): 74 %  
Test substance: LPA® 210 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.
IATA  Not regulated.
IMDG  Not regulated.
LPAR®-210 Solvent

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)
Non-hazardous substance

TSCA Inventory Listing

<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></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
"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
WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

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
SAFETY DATA SHEET

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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>NFPA</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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