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

Trade name  LINPAR® 1416-V Normal Paraffin
Synonyms  Mixture of Tetradecane, Pentadecane and Hexadecane
Use  Industrial use, Lighting, Metal Processing, Oilfield Drilling
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
           SDS 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

OSHA/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/doctor.
P331  Do NOT induce vomiting.

Storage  P405  Store locked up.

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>C14-16 Normal Paraffins</td>
<td>90622-46-1</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 immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

**Skin contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. Consult a physician.

SECTION 5  FIREFIGHTING MEASURES

**FLAMMABLE PROPERTIES**
- **Fire/explosion** NFPA Class IIIB combustible liquid.
- **Suitable extinguishing media** Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
- **Protective equipment and precautions for firefighters** In the event of fire, wear self-contained breathing apparatus.
- **Further information** Keep containers and surroundings cool with water spray.

SECTION 6  ACCIDENTAL RELEASE MEASURES

**Methods and materials for containment and cleaning up** Evacuate the area and eliminate all sources of ignition. 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 pressure  Ambient

Load/Unload temperature  Ambient, above freezing point.  (Product will freeze at 4°C)

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., Sasol Chemicals (USA) LLC recommends an internal limit of 5 mg/m3 (8-hour TWA) for exposure to mists of this product.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Appearance  liquid;

Colour  water-white, oily

Form  liquid

Odour  Hydrocarbons

Odour Threshold  No data available

Flash point  118 °C, 244 °F; PM;

Flammability  Upper explosion limit: 4.7 %(V)

Lower explosion limit: 0.5 %(V)
SAFETY DATA SHEET

LINPAR® 1416-V Normal Paraffin

Boiling point/boiling range 248 - 284 °C, 478 - 544 °F; ASTM D-86;

Melting point/range 4 °C, 39 °F; (Freeze pt.)

Auto-ignition temperature 204 °C, 400 °F;

Decomposition temperature No data available

Flammability (solid, gas) No data available

Vapour pressure < 0.1 mm Hg @ 20 °C, 68 °F; API Calculation;

Vapour density 7.1

Density No data available

Specific gravity 0.768 @16 °C, 61 °F;

Water solubility negligible

Viscosity 2.3 - 2.5 cSt @ 40 °C, 104 °F;

pH No data available

Evaporation rate No data available

Partition coefficient: n-octanol/water No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity Stable under recommended storage conditions.

Chemical stability No decomposition if stored and applied as directed.

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

Hazardous decomposition products Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.

Materials to avoid Oxidizing agents

Hazardous polymerisation None known.
## SECTION 11  TOXICOLOGICAL INFORMATION

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td>LD50 Rabbit: &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td><strong>Acute inhalation toxicity</strong></td>
<td>LC50 Rat (4 hours): &gt; 5.8 mg/l</td>
</tr>
<tr>
<td><strong>Acute oral toxicity</strong></td>
<td>LD50 Rat: &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>(Rabbit) Repeated exposure may cause skin dryness or cracking.</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>Primary irritation (Rabbit): 1 hours; 5.7 (Max. score is 110.) (unwashed eyes), Not irritating</td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitisation</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>
</tbody>
</table>
SECTION 12 ECOLOGICAL INFORMATION

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

Toxicity to fish LL50 (Pimephales promelas (fathead minnow)) 96 hours
In the range of water solubility not toxic under test conditions.

Toxicity to aquatic invertebrates EL50 (Ceriodaphnia dubia (water flea)) 192 hours
In the range of water solubility not toxic under test conditions.

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): 82 %
Test substance: LINPAR 1417

Bioaccumulative potential 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

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

TSCA Inventory Listing

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkanes, C14-16</td>
<td>90622-46-1</td>
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</table>

SARA 302 Status

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

SARA 311/312 Classification

Aspiration hazard

SARA 313 Chemical

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>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
Aspiration hazard Category 1

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. ISHL - Inventory of Chemical Substances Listed
Canada. Domestic Substances List (DSL) Inventory Listed
This product or a component is the subject of a Significant New Activity (SNAc) notice under CEPA.

Canada. Non-Domestic Substance Listing (NDSL) Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS) Listed
Korea. Existing Chemicals Inventory (KECI) Listed
China. Inventory of Existing Chemical Substances (IECSC) Listed
Mexico Not listed
New Zealand. Inventory of Chemical Substances Listed
Switzerland 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
## SAFETY DATA SHEET

### LINPAR® 1416-V Normal Paraffin

#### 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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