SAFETY DATA SHEET

LPA®-142 Solvent

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

<table>
<thead>
<tr>
<th>Trade name</th>
<th>LPA®-142 Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Paraffinic Naphthenic Solvent, Aliphatic Solvent</td>
</tr>
<tr>
<td>Use</td>
<td>Industrial use, Industrial &amp; Institutional cleaning, Paint and Coatings, Water treatment chemical</td>
</tr>
<tr>
<td>Company</td>
<td>Sasol Chemicals (USA) LLC (an affiliate of Sasol 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) (800) 424-9300</td>
</tr>
<tr>
<td></td>
<td>CHEMTREC World Wide (703) 527-3887</td>
</tr>
<tr>
<td></td>
<td>Other Emergencies (24-hr) (337) 494-5142</td>
</tr>
<tr>
<td></td>
<td>MSDS and Product Information (8:00am-4:30pm CST) (281) 588-3491</td>
</tr>
<tr>
<td></td>
<td>Health and Safety Information (7:30am-4:00pm CST) (281) 588-3492</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  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.
LPA®-142 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. 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

Contains 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
**SAFETY DATA SHEET**

**LPA®-142 Solvent**

<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

**Revision Date 05/15/2015**  **Version 1.2**  **Print Date 05/21/2015**  **110000000142**  **Page 5 of 9**
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
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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>
<tr>
<td>NFPA</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

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SAFETY DATA SHEET

LPA®-142 Solvent

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# SAFETY DATA SHEET

## 1. Identification

### Identification
- **Product name:** ALOX ® 606-55, AF1761
- **Additional identification**
  - **Chemical name:** Mixture

### Recommended use and restriction on use
- **Recommended use:** Metal Protection
- **Restrictions on use:** None identified.

### Details of the supplier of the safety data sheet
- **Supplier**
  - **Company Name:** THE LUBRIZOL CORPORATION
  - **Address:** 29400 LAKELAND BOULEVARD WICKLIFFE, OH 44092-2298 US
  - **Telephone:** (440)943-1200

### Emergency telephone number:
FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards
- Flammable liquids Category 3

#### Health Hazards
- Skin Corrosion/Irritation Category 2
- Specific Target Organ Toxicity - Single Exposure Category 3

#### Unknown toxicity
- Acute toxicity, oral 0.0 %
- Acute toxicity, dermal 0.0 %
- Acute toxicity, inhalation, vapor 46.5 %
- Acute toxicity, inhalation, dust or mist 46.7 %

### Label Elements:
Hazard Symbol: 

Signal Word: Warning

Hazard Statement: Flammable liquid and vapour. Causes skin irritation. May cause drowsiness or dizziness.

Precautionary Statements:


Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTRE/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use CO2, dry chemical or foam to extinguish. Water can be used to cool and protect exposed material.


Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None identified.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum naphtha</td>
<td>Confidential</td>
<td>50 - 60%</td>
</tr>
<tr>
<td>Mineral oil</td>
<td>Not determined.</td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>
The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742-55-8, and 64742-56-9.

**Trade secret information:** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting. Rinse mouth. Get medical attention if symptoms occur.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Skin Contact:** Take off immediately all contaminated clothing. Take off contaminated clothing and wash before re-use. Wash skin thoroughly with soap and water. If skin irritation occurs, get medical attention.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See section 11.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

### 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** CO2, Dry chemical or Foam. Water can be used to cool and protect exposed material.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.
Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Ground and bond container and receiving equipment. Use non-sparking tools. Avoid contact with skin. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

Maximum Handling Temperature:

25 °C  77 °F

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep cool. Store in a well-ventilated place. Do not store near potential sources of ignition.

Maximum Storage Temperature:

25 °C  77 °F
8. Exposure controls/personal protection

Control Parameters:

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum naphtha - Non-aerosol. - as total hydrocarbon vapor</td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (02 2012)</td>
</tr>
<tr>
<td>Petroleum naphtha</td>
<td>REL</td>
<td>100 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>Petroleum naphtha</td>
<td>REL</td>
<td>100 ppm/400 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>Petroleum naphtha</td>
<td>PEL</td>
<td>100 ppm/400 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100) (03 2016)</td>
</tr>
<tr>
<td>Petroleum naphtha</td>
<td>TWA</td>
<td>100 ppm/400 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Mineral oil - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (02 2012)</td>
</tr>
<tr>
<td>Mineral oil - Mist.</td>
<td>REL</td>
<td>5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>Mineral oil - Mist.</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td>Mineral oil - Mist.</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls:**

Use explosion-proof ventilation equipment to stay below exposure limits.

**Individual protection measures, such as personal protective equipment**

**General information:** Use explosion-proof ventilation equipment. Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:** Wear tight-fitting goggles or face shield.

**Skin Protection**

**Hand Protection:** Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.

**Other:** Chemical resistant boots. Wear apron or protective clothing in case of contact. Do not wear rings, watches or similar apparel that could entrap the material.

**Respiratory Protection:** A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use respirator with an organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
Hygiene measures: Observe good industrial hygiene practices. Avoid contact with skin. Wash contaminated clothing before reuse. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

- Physical state: liquid
- Form: liquid
- Color: Brown
- Odor: Hydrocarbon
- Odor threshold: No data available.
- pH: No data available.
- Freezing point: No data available.
- Boiling Point: > 302 °F (150 °C)
- Flash Point: 108 °F (42 °C) (Tagliabue Closed Cup)
- Evaporation rate: No data available.
- Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.
- Vapor pressure: No data available.
- Vapor density: No data available.
- Relative density: 0.84 - 0.92 60.1 °F (15.6 °C)

Solubility(ies)

- Solubility in water: Insoluble in water
- Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: 435 mm2/s (104 °F (40 °C)) 26.5 mm2/s (100 °C (212 °F)) < 5,000 mPa.s (77 °F (25 °C))

Other information

- Bulk density: 7.33 lb/gal 77 °F (25 °C)
- VOC: 3.17 lb/gal
- Pour Point Temperature: Approximate 43 °F (6 °C)

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Will not occur.

Conditions to avoid: Heat, sparks, flames.


Hazardous Decomposition Products: Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity

Oral Product: Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Not classified for acute toxicity based on available data.

Dermal Product: Not classified for acute toxicity based on available data.

Inhalation Product: High concentrations may cause headaches, dizziness, weakness, irritability and other behavioral changes, nausea, and vomiting. Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation: Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Remarks: Causes skin irritation.

Serious Eye Damage/Eye Irritation: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization: No data available

Skin sensitization: Mineral oil Classification: Not a skin sensitizer. (Read across)

Specific Target Organ Toxicity - Single Exposure:

SDS_US - ALOX ® 606-55, AF1761
Petroleum naphtha  May cause drowsiness or dizziness.

Mineral oil  If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard:**

**Petroleum naphtha**  Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Mineral oil**  Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Chronic Effects**

**Carcinogenicity:**

**Product:**  This product contains mineral oils which are severely refined and not considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. Butyl cellosolve: A National Toxicology Program (NTP) chronic inhalation study revealed some evidence of carcinogenic activity in male and female mice, equivocal evidence in female rats, and no evidence in male rats.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**  No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**  No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**  No carcinogenic components identified

**Germ Cell Mutagenicity:**  No data available

**Reproductive toxicity:**  No data available

**Specific Target Organ Toxicity - Repeated Exposure:**  No data available

**12. Ecological information**

**Ecotoxicity**

**Fish**

Mineral oil  LC 50 (Fathead Minnow, 4 d): > 100 mg/l

**Aquatic Invertebrates**

Mineral oil  EC 50 (Water flea (Daphnia magna), 2 d): > 10,000 mg/l
Toxicity to Aquatic Plants
Mineral oil
EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l
NOEC (Water flea (Daphnia magna), 21 d): > 10 mg/l

Toxicity to Aquatic Plants
Mineral oil
EC 50 (Green algae (Scenedesmus quadricauda), 3 Days): > 100 mg/l

Toxicity to soil dwelling organisms
No data available

Sediment Toxicity
No data available

Toxicity to Terrestrial Plants
No data available

Toxicity to Above-Ground Organisms
No data available

Toxicity to microorganisms
No data available

Persistence and Degradability
Biodegradation
Mineral oil
OECD TG 301 B, 31 %, 28 d, Not readily degradable.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
No data available

Partition Coefficient n-octanol / water (log Kow)
No data available

Mobility:
No data available

Other Adverse Effects:
No data available.

13. Disposal considerations

Disposal instructions:
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

Contaminated Packaging:
Container packaging may exhibit hazards.
## 14. Transport information

### DOT

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>NA 1993</td>
</tr>
<tr>
<td>UN Proper Shipping Name</td>
<td>Combustible liquid, n.o.s.(Mineral spirits)</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>CBL</td>
</tr>
<tr>
<td>Class</td>
<td>CBL</td>
</tr>
<tr>
<td>Label(s)</td>
<td>NONE</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None established</td>
</tr>
</tbody>
</table>

### IMDG

<table>
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<tbody>
<tr>
<td>UN Number</td>
<td>UN 1268</td>
</tr>
<tr>
<td>UN Proper Shipping Name</td>
<td>PETROLEUM DISTILLATES, N.O.S.</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
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</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Label(s)</td>
<td>3</td>
</tr>
<tr>
<td>EmS No.</td>
<td>F-E, S-E</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Limited quantity</td>
<td>5.00L</td>
</tr>
<tr>
<td>Excepted quantity</td>
<td>E1</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None established</td>
</tr>
</tbody>
</table>

### IATA

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>UN Number</td>
<td>UN 1268</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Petroleum distillates, n.o.s.</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
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<tr>
<td>Class</td>
<td>3</td>
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<tr>
<td>Label(s)</td>
<td>3</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Limited quantity</td>
<td>10.00L</td>
</tr>
<tr>
<td>Excepted quantity</td>
<td>E1</td>
</tr>
</tbody>
</table>

### Environmental Hazards

- Marine Pollutant

### Special precautions for user

- None established

### Other information

- **Passenger and cargo aircraft:** Allowed.
- **Cargo aircraft only:** Allowed.

### Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based on the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.
15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Reportable quantity</th>
<th>Calculated¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1000 lbs</td>
<td>&gt; 50000 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; 22680 kgs</td>
</tr>
</tbody>
</table>

¹This is the amount product/material required to be released before CERCLA reporting is required.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 311 Classifications
Flammable (gases, aerosols, liquids, or solids)
Skin Corrosion or Irritation
Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Percent by Weight</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl cellosolve</td>
<td>111-76-2</td>
<td>0.2 %</td>
<td>*See regulation for further details</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>45.0 PPM</td>
<td>1000 lbs</td>
</tr>
</tbody>
</table>

*These specific chemicals are not listed please check the generic entries on the SARA 304 listings for applicability.

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>45.00PPM</td>
</tr>
<tr>
<td>Cumene</td>
<td>5.00PPM</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>453.00PPB</td>
</tr>
<tr>
<td>Benzene</td>
<td>453.00PPB</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>453.00PPB</td>
</tr>
</tbody>
</table>

Inventory Status

Australia (AICS)
All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)
All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.
China (IECSC)
All components of this product are listed on the Inventory of Existing Chemical Substances in China.

European Union (REACH)
To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)
All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)
All components are in compliance in Korea.

New Zealand (NZIoC)
All components are in compliance with chemical notification requirements in New Zealand.

Philippines (PICCS)
All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)
All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)
All components of this product are listed on the Taiwan inventory.

United States (TSCA)
All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

<table>
<thead>
<tr>
<th>Health</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Physical Hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect
NFPA Hazard ID

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date: 02/20/2018
Version #: 3.0
Source of information: Internal company data and other publically available resources.
Further Information: Contact supplier (see Section 1)
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