Polyethylene

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

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Polyethylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Ethene, homopolymer</td>
</tr>
<tr>
<td>Use</td>
<td>Industrial use, Raw material for chemical processes</td>
</tr>
<tr>
<td>Company</td>
<td>Sasol Chemicals (USA) LLC</td>
</tr>
<tr>
<td>(an affiliate of Sasol Chemicals North America LLC)</td>
<td></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>SDS 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>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

Not a hazardous substance or mixture according to OSHA HCS 2012.

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>Polyethylene</td>
<td>9002-88-4</td>
<td>&gt;98</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. |
Polyethylene

SECTION 5  FIREFIGHTING MEASURES

**FLAMMABLE PROPERTIES**

- **Fire/explosion**
  - NFPA Class IIIB combustible liquid.

- **Suitable extinguishing media**
  - Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)

- **Protective equipment and precautions for firefighters**
  - Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

SECTION 6  ACCIDENTAL RELEASE MEASURES

- **Methods and materials for containment and cleaning up**
  - Evacuate personnel to safe areas. Remove all sources of ignition. Spilled material will solidify. Pick up and arrange disposal without creating dust. Do not flush into surface water or sanitary sewer system.

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**
  - 150 °C
  - 302 °F

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING MEASURES**

- Ensure adequate ventilation, especially in confined areas.

**PERSONAL PROTECTIVE EQUIPMENT**

- **Eyes**
  - Wear as appropriate: Goggles, Face-shield

- **Skin**
  - Wear suitable protective clothing, gloves and eye/face protection.

- **Inhalation**
  - Use NIOSH approved respiratory protection.

**EXPOSURE GUIDELINES**

- **Nuisance Dust**
  - OSHA TWA  5 mg/m3 Respirable dust
  - OSHA TWA  15 mg/m3 Total dust
  - ACGIH TWA  10 mg/m3 inhalable dust
  - ACGIH TWA  3 mg/m3 Respirable dust
Contains no substances with occupational exposure limit values.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

Appearance  solid;

Colour  white

Form  solid

Odour  Waxy odor

Odour Threshold  No data available

Flash point  approximately > 230 °C, > 446 °F;

Flammability  Upper explosion limit: No data available

Flammability (solid, gas)  No data available

Boiling point/boiling range  No data available

Melting point/range  110 - 125 °C, 230 - 251 °F;

Auto-ignition temperature  approximately 349 °C, 660 °F;

Decomposition temperature  No data available

Density  0.91 - 0.94 g/cm^3

Relative density  No data available

Water solubility  insoluble

Viscosity  No data available

pH  No data available
Polyethylene

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: None.
Hazardous decomposition products: Carbon oxides
Materials to avoid: Oxidizing agents
Hazardous polymerisation: None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks: Information given is based on data obtained from similar substances.
Acute dermal toxicity: No data available
Acute inhalation toxicity: No data available
Acute oral toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/eye irritation: Test substance: No data available
Respiratory or skin sensitisation: No data available
Germ cell mutagenicity: Genotoxicity in vitro: No data available
Polyethylene

Genotoxicity in vivo:
No data available

Assessment Mutagenicity:
No data available

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:
No data available

Carcinogenicity:
Assessment carcinogenicity:
Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity:
Aquatic toxicity is unlikely due to low 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:
This material is not expected to be biodegradable.

Bioaccumulative:
No data available
Polyethylene

<table>
<thead>
<tr>
<th></th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility in soil</td>
<td>No data available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**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>Ethene, homopolymer</td>
<td>9002-88-4</td>
</tr>
</tbody>
</table>

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.
### SAFETY DATA SHEET

**Polyethylene**

**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>
</tr>
</tbody>
</table>

**SARA 311/312 Classification**

Non-hazardous substance

**SARA 313 Chemical Components**

<table>
<thead>
<tr>
<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>
</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**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**European Union**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**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

**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. National Inventory of Chemical Substances (INSQ)**

Listed

**New Zealand. Inventory of Chemical Substances (NZIoC)**

Listed

**Switzerland. Inventory of Notified New Substances (CHINV)**

Not listed

**Taiwan. National Existing Chemical Inventory (NECI)**

Listed
SAFETY DATA SHEET

Polyethylene

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

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

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