1-Octene

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

Trade name  1-Octene
Synonyms  Octene-1; 1-Caprylene; 1-Octylene; n-1-Octene
Use  Industrial use, Raw material for chemical processes, Raw material for industry
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  Flammable liquids Category 2
                   Aspiration hazard Category 1
                   Acute aquatic toxicity Category 1
                   Chronic aquatic toxicity Category 1

LABEL ELEMENTS

Hazard symbols

Signal word  Danger

Hazard statements  H225 Highly flammable liquid and vapour.
                   H304 May be fatal if swallowed and enters airways.
                   H400 Very toxic to aquatic life.
                   H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
            P233 Keep container tightly closed.
1-Octene

P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/eye protection/face protection.
P273 Avoid release to the environment.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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/doctor.
P331 Do NOT induce vomiting.
P391 Collect spillage.

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>1-Octene</td>
<td>111-66-0</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.
1-Octene

SECTION 5  FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

<table>
<thead>
<tr>
<th>Fire/explosion</th>
<th>Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class 1B flammable liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable extinguishing media</td>
<td>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</td>
</tr>
</tbody>
</table>

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. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

SECTION 6  ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Evacuate personnel to safe areas. Remove 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). 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

Ambient

Further information on storage conditions

Keep away from heat and sources of ignition.

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Chemical resistant goggles must be worn., Face-shield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Wear suitable protective clothing, gloves and eye/face protection.</td>
</tr>
</tbody>
</table>
1-Octene

**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.

**SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: liquid;
- **Colour**: Clear, colorless
- **Form**: liquid
- **Odour**: Hydrocarbons
- **Odour Threshold**: No data available
- **Flash point**: 18 °C, 64.4 F;
- **Flammability**: Upper explosion limit: 6.8 %(V)
  
  Lower explosion limit: 0.9 %(V)
- **Boiling point/boiling range**: 121 °C, 250 °F;
- **Melting point/range**: -101.7 °C, -151 °F;
- **Auto-ignition temperature**: 230 °C, 446 °F;
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapour pressure**: 48.26 hPa @ 20 °C, 68 °F;
- **Vapour density**: 2.9
- **Density**: 0.7149 g/cm3 @ 20 °C, 68 °F;
- **Specific gravity**: No data available
- **Water solubility**: insoluble
1-Octene

**Viscosity**: 0.5 cSt @ 40 °C, 104 °F;

**pH**: No data available

**Evaporation rate**: No data available

**Partition coefficient: n-octanol/water**: No data available

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### 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**: Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.

**Materials to avoid**: Strong oxidizing agents

**Hazardous polymerisation**: None.

---

### SECTION 11  TOXICOLOGICAL INFORMATION

**Acute dermal toxicity**: LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402

**Acute inhalation toxicity**: LC50 Rat (4 hours): 8,050 ppm; OECD Test Guideline 403

**Acute oral toxicity**: LD50 Rat: > 10,000 mg/kg

**Skin corrosion/irritation**: (Rabbit) Not irritating

**Serious eye damage/eye irritation**: (Rabbit) Not irritating

**Respiratory or skin sensitisation**: not sensitizing

**Germ cell mutagenicity**: Genotoxicity in vitro: No data available
1-Octene

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
Very toxic to aquatic life with long lasting effects.

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: 0.87 mg/l; OECD Test Guideline 203

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 48 hours: 1 mg/l; OECD Test Guideline 202

Toxicity to algae
EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: 1 - 10 mg/l; OECD Test Guideline 201

Chronic toxicity to fish
No data available

Chronic toxicity to aquatic invertebrates
No data available
1-Octene

**Biodegradation**
Expected to be biodegradable

OECD Test Guideline 301B (28 d): > 60 %
Test substance: Hexene-1

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**Other adverse effects**
No data available

### SECTION 13  DISPOSAL CONSIDERATIONS

**Waste Code**
D001 - Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability. 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.

**Disposal methods**
Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**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**
UN 3295, Hydrocarbons, liquid, n.o.s., 3, II , Marine pollutant (Octene)

**IATA**
UN 3295, Hydrocarbons, liquid, n.o.s., 3, II (Octene)

**IMDG**
UN 3295, Hydrocarbons, liquid, n.o.s., 3, II, Marine pollutant (Octene)

**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>1-Octene</td>
<td>111-66-0</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>
</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>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>none</td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS

WHMIS Classification

| Flammable liquids | Category 2 |
| Aspiration hazard | Category 1 |
| Acute aquatic toxicity | Category 1 |
| Chronic aquatic toxicity | Category 1 |

European Union

Classification according to Regulation (EU) 1272/2008.

| Flammable liquids, Category 2 |
| Aspiration hazard, Category 1 |
| Acute aquatic toxicity, Category 1 |
| Chronic aquatic toxicity, 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
1-Octene

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 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

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

<table>
<thead>
<tr>
<th></th>
<th>HMIS®</th>
<th>NFPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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