

## 1-Octene

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

<b>Trade name</b>	1-Octene	
<b>Synonyms</b>	Octene-1; 1-Caprylene; 1-Octylene; n-1-Octene	
<b>Use</b>	Industrial use, Raw material for chemical processes, Raw material for industry	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	12120 Wickchester Lane, Houston, TX 77079	
<b>Telephone</b>	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
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com	

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS</b>	Flammable liquids	Category 2
<b>Hazards</b>	Aspiration hazard	Category 1
	Acute aquatic toxicity	Category 1
	Chronic aquatic toxicity	Category 1

#### LABEL ELEMENTS

##### Hazard symbols



**Signal word** Danger

<b>Hazard statements</b>	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

<b>Prevention</b>	P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.

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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.

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### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octene	111-66-0	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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### SECTION 4 FIRST AID MEASURES

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**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.

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### SECTION 5 FIREFIGHTING MEASURES

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#### FLAMMABLE PROPERTIES

**Fire/explosion** Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors.

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NFPA Class 1B flammable liquid.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**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.

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### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**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.

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### SECTION 7 HANDLING AND STORAGE

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**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.

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### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### ENGINEERING MEASURES

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

#### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Chemical resistant goggles must be worn. 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.

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### EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	liquid
<b>Colour</b>	clear colourless
<b>Form</b>	liquid
<b>Odour</b>	Hydrocarbons
<b>Odour Threshold</b>	No data available
<b>Flash point</b>	18 °C, 64.4 °F;
<b>Flammability</b>	Upper explosion limit: 6.8 %(V) Lower explosion limit: 0.9 %(V)
<b>Boiling point/boiling range</b>	121 °C, 250 °F;
<b>Melting point/range</b>	-101.7 °C, -151 °F;
<b>Auto-ignition temperature</b>	230 °C, 446 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	48.26 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	2.9
<b>Density</b>	0.7149 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Relative density</b>	No data available
<b>Water solubility</b>	insoluble
<b>Viscosity</b>	0.5 cSt @ 40 °C, 104 °F;
<b>pH</b>	No data available

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**Evaporation rate** No data available

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

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### SECTION 10 STABILITY AND REACTIVITY

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**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.

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### SECTION 11 TOXICOLOGICAL INFORMATION

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

**Acute inhalation toxicity** LC50 Rat (4 hours): 8,050 mg/l; 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

**Genotoxicity in vivo:**  
No data available

**Assessment Mutagenicity:**  
No data available

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<b>Reproductive toxicity</b>	<b>Reproductive toxicity:</b> No data available
	<b>Assessment Reproductive toxicity:</b> No data available
	<b>Teratogenicity:</b> No data available
	<b>Assessment teratogenicity:</b> No data available
<b>STOT - single exposure</b>	No data available
<b>STOT - repeated exposure</b>	No data available
<b>Aspiration toxicity</b>	May be fatal if swallowed and enters airways.
<b>Carcinogenicity</b>	<b>Assessment carcinogenicity:</b> Contains no ingredient listed as a carcinogen

## SECTION 12 ECOLOGICAL INFORMATION

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<b>Aquatic toxicity</b>	Very toxic to aquatic life with long lasting effects.
<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: 0.87 mg/l; OECD Test Guideline 203
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 48 hours: 1 mg/l; OECD Test Guideline 202
<b>Toxicity to algae</b>	EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: 1 - 10 mg/l; OECD Test Guideline 201
<b>Chronic toxicity to fish</b>	No data available
<b>Chronic toxicity to aquatic invertebrates</b>	No data available
<b>Biodegradation</b>	Expected to be biodegradable OECD Test Guideline 301B (28 d): > 60 % Test substance: Hexene-1
<b>Bioaccumulative potential</b>	No data available

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**Mobility in soil** No data available

**Other adverse effects** No data available

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### SECTION 13 DISPOSAL CONSIDERATIONS

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**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.

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### SECTION 14 TRANSPORT INFORMATION

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**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

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### SECTION 15 REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

**TSCA Inventory Listing**

Components  
1-Octene

CAS-No.  
111-66-0

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

### SARA 302 Status

#### Components

#### CAS-No.

#### Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

### SARA 313 Chemical

#### Components

#### CAS-No.

#### Weight percent

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.

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

#### Components

#### Reportable Quantity

#### Weight percent

none

## 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

**Canada. Non-Domestic Substance Listing (NDSL)** Not listed

**Philippines. Inventory of Chemicals / Chemical Substances (PICCS)** Listed



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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)	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

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### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	3	3	0
NFPA	3	3	0

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