

# Material Safety Data Sheet

## Octene

Version 1.01

Revision Date 14.09.2006



### 1. Identification of the substance/preparation and of the company/undertaking

<b>Trade name</b>	Octene
<b>Synonyms</b>	Octene
<b>Use</b>	industrial use, raw material for synthesis processes in the chemical industry
<b>Company</b>	Hitech Chemicals

### 2. Composition/information on ingredients

#### Octene-1

**content:** > 97.00 %W/W

**CAS-No.** 111-66-0  
**Symbol(s)** F, Xn, N

**Index-No.**  
**R-phrase(s)** -R11 -R38 -R51/53 -R65

**EG-Nr.:** 203-893-7

For the full text of the R phrases mentioned in this Section, see Section 16.

### 3. Hazards identification

#### Identification of the risks

R11	Highly flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

### 4. First aid measures

**General advice** If you feel unwell, seek medical advice (show the label where

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	<i>possible).</i>
<b>Inhalation</b>	<i>Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.</i>
<b>Skin contact</b>	<i>Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.</i>
<b>Eye contact</b>	<i>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.</i>
<b>Ingestion</b>	<i>If swallowed, seek medical advice immediately and show this container or label. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.</i>

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	<i>Foam, Water spray, Dry powder</i>
<b>Specific hazards during fire fighting</b>	<i>Flash back possible over considerable distance.</i>
<b>Special protective equipment for fire-fighters</b>	<i>Wear self-contained breathing apparatus and protective suit.</i>
<b>Further information</b>	<i>Cool containers / tanks with water spray.</i>

### 6. Accidental release measures

<b>Personal precautions</b>	<i>Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.</i>
<b>Environmental precautions</b>	<i>Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.</i>
<b>Methods for cleaning up</b>	<i>Soak up with inert absorbent material and dispose of as hazardous waste.</i>
<b>Additional advice</b>	<i>Never return spills in original containers for re-use.</i>

### 7. Handling and storage

#### Handling

<b>Safe handling advice</b>	<i>Avoid inhalation of vapour or mist. Wear personal protective equipment.</i>
<b>Advice on protection</b>	<i>Keep away from heat and sources of ignition. Use only</i>

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**against fire and explosion** explosion-proof equipment.

### Storage

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

#### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

### Engineering measures

In use, may form flammable/explosive vapour-air mixture.

### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** gloves suitable for permanent contact:  
Material: nitrile rubber/nitrile latex  
Break through time: > 8 h  
Material thickness: 0.35 mm  
unsuitable gloves  
Material: natural rubber/natural latex, polychloroprene, butyl-rubber, Polyvinylchloride

**Eye protection** Safety glasses with side-shields

**Skin and body protection** protective suit, Safety shoes

**Hygiene measures** Wash hands before breaks and immediately after handling the product.

**Protective measures** Wear suitable protective equipment.

## 9. Physical and chemical properties

<b>Form</b>	liquid
<b>state of matter</b>	liquid; at 101.3 kPa
<b>Colour</b>	colourless
<b>Odour</b>	petrol
<b>Melting point/range</b>	-101.73 °C; 101.3 kPa

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<b>Boiling point/range</b>	121.3 °C
<b>Flash point</b>	18 °C; closed cup
<b>Autoignition temperature</b>	230 °C
<b>Lower explosion limit</b>	0.9 %(V)
<b>Upper explosion limit</b>	7.3 %(V)
<b>Vapour pressure</b>	40 hPa; 20 °C
<b>Density</b>	0.715 g/cm <sup>3</sup> ; 20 °C
<b>Water solubility</b>	immiscible
<b>Partition coefficient (n-octanol/water)</b>	log Pow: 4.57
<b>Solubility in other solvents</b>	Medium: acetone; completely miscible
<b>Viscosity, kinematic</b>	0.356 mm <sup>2</sup> /s
<b>Relative vapour density</b>	3.87

### 10. Stability and reactivity

<b>Materials to avoid</b>	Oxidizing agents, Reducing agents
<b>Hazardous decomposition products</b>	Carbon oxides

### 11. Toxicological information

<b>Acute oral toxicity</b>	Octene-1: LD50 rat: > 5,000 mg/kg; (literature value)
<b>Acute inhalation toxicity</b>	Octene-1: LC50 rat: 37.6 mg/l; ; 4 h(literature value)
<b>Acute dermal toxicity</b>	Octene-1: LD50 rabbit: > 2,000 mg/kg; (literature value)
<b>Skin irritation</b>	Octene-1: rabbit: moderately irritating; ; not irritating(literature value)
<b>Eye irritation</b>	Octene-1: rabbit: slightly irritating; ; not irritating(literature value)
<b>Sensitization</b>	Octene-1: Buehler Test guinea pig: not sensitizing; OECD Test Guideline 406; (literature value)
<b>Genotoxicity in vitro</b>	Octene-1: Bacterial gene mutation assay: not mutagenic; (literature value) Octene-1:

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Ames test: not mutagenic; (literature value)

### 12. Ecological information

#### Ecotoxicity effects

##### Toxicity to fish

Octene-1:  
LC50 *Brachydanio rerio*: 4.8 mg/l; 96 h; (literature value)

##### Toxicity to daphnia

Octene-1:  
EC50 *Daphnia magna*: 3 - 10 mg/l; 24 h; (literature value)

### 13. Disposal considerations

#### Product

Dispose of in accordance with local regulations.

#### Contaminated packaging

Store containers and offer for recycling of material when in accordance with the local regulations.

### 14. Transport information

#### ADR

UN-No.: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (1-octene)

#### RID

UN-No.: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (1-octene)

#### ADNR

UN-No.: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (1-octene)

#### IMDG

UN-No.: 3295; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (1-octene)

#### ICAO/IATA

UN-No. : 3295; Class: 3; Packaging group: II; Description of the goods: Hydrocarbons, liquid, n.o.s. (1-octene)

### 15. Regulatory information

#### Labelling

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<b>Regulatory base</b>	67/548/EEC
<b>Symbol(s)</b>	F: highly flammable Xn: Harmful N: dangerous for the environment
<b>R-phrase(s)</b>	R11: Highly flammable. R38: Irritating to skin. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65: Harmful: may cause lung damage if swallowed.
<b>S-phrase(s)</b>	S 9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S24: Avoid contact with skin. S29: Do not empty into drains. S33: Take precautionary measures against static discharges. S61: Avoid release to the environment. Refer to special instructions/safety data sheets. S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
<b>Hazardous components which must be listed on the label</b>	Octene-1

### 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

R11	Highly flammable.
R38	Irritating to skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.

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*The MSDS was created by:*  
*The MSDS was approved by:*