

# SAFETY DATA SHEET

Creation Date 25-Oct-2010

Revision Date 25-Dec-2021

**Revision Number** 4

Product Name	1. Identification 1-Octene
Cat No. :	AC301250000; AC301250010; AC301250025; AC301250050; AC301250100; AC301251000; AC301255000
CAS No Synonyms	111-66-0 Caprylene
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet
Company	

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Aspiration Toxicity Category 2 Category 1

#### Label Elements

Signal Word Danger

#### **Hazard Statements**

Highly flammable liquid and vapor May be fatal if swallowed and enters airways



#### Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects

Repeated exposure may cause skin dryness or cracking

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %
1-Octene		111-66-0	>95
	4.	First-aid measures	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.		
Inhalation		n exposure, lie down. Remove to fresh a ng, give artificial respiration. Get medica aspiration).	
Ingestion	plenty of wat	ice vomiting. Never give anything by mo er. Get medical attention. If possible drir ol center immediately. If vomiting occurs	nk milk afterwards. Call a physician or
Most important symptoms and effects Notes to Physician		reathing Inhalation of high vapor cond zziness, tiredness, nausea and vomiting matically	

	5. Fire-fightin	g measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.			
Unsuitable Extinguishing Media	No information available	No information available		
Flash Point	13 °C / 55.4 °F			
Method -	No information available			
Autoignition Temperature	230 °C / 446 °F			
Explosion Limits Upper Lower Sensitivity to Mechanical Imp Sensitivity to Static Discharge				
Specific Hazards Arising from the Flammable. Vapors may form explo explode when heated. Vapors may courses.	sive mixtures with air. Vapors m			
Hazardous Combustion Products Carbon monoxide (CO). Carbon dio Protective Equipment and Precau As in any fire, wear self-contained b protective gear.	xide (CO <sub>2</sub> ). Itions for Firefighters	mand, MSHA/NIOSH (approv	ved or equivalent) and full	
NFPA Health 1	Flammability 3	<b>Instability</b> 0	<b>Physical hazards</b> N/A	
	6. Accidental rele	ease measures		
Personal Precautions Environmental Precautions	Do not flush into surface wa contaminate ground water s should be advised if significa	ter or sanitary sewer system. ystem. Prevent product from	entering drains. Local authorities ined. See Section 12 for additiona	
Methods for Containment and Cle Up	sawdust). Keep in suitable,	closed containers for disposa	el, acid binder, universal binder, Il. Remove all sources of ignition. o not let this chemical enter the	
	7. Handling a	ind storage		
Handling	measures against static disc discharge, all metal parts of	charges. To avoid ignition of v the equipment must be groun		

Storage.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away

Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Contents may develop pressure upon prolonged storage. Keep away from open flames, hot surfaces

and sources of ignition.

from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Strong acids. Peroxides.

8. E	Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	No information available
Odor	Petroleum distillates
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-102 °C / -151.6 °F
Boiling Point/Range	121 - 123 °C / 249.8 - 253.4 °F @ 760 mmHg
Flash Point	13 °C / 55.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	3.90%
Lower	0.70%
Vapor Pressure	13 mmHg @ 20 °C
Vapor Density	3.9
Specific Gravity	0.715
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	230 °C / 446 °F
Decomposition Temperature	No information available
Viscosity	0.38 cSt at 40 °C
Molecular Formula	C8 H16
Molecular Weight	112.21

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials	Strong oxidizing agents, Strong acids, Peroxides
Hazardous Decomposition Products	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

#### Acute Toxicity

### Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-Octene	>10000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	40.2 mg/L/4h (Rat)
Toxicologically Synergistic	No information available		

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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Products
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#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available

Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1-Octene	111-66-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Not mutagenic in AMES Test				
Reproductive Effects		No information available.				
Developmental Effects		No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, di delayed itiredness, nausea and vomiting		he, dizziness,				
Endocrine Disruptor Information No information available						
Other Adverse Effects		The toxicological properties have not been fully investigated.				

### 12. Ecological information

#### **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.

Component	log Pow
1-Octene	4.57

### 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

DOT	
UN-No	UN3295
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing Group	II
TDG	
UN-No	UN3295
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing Group	II
<u>IATA</u>	
UN-No	UN3295
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN3295
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.
Hazard Class	3
Packing Group	II
	15. Regulatory information

#### United States of America Inventory

1	Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
	1-Octene	111-66-0	Х	ACTIVE	-

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

U.S. Federal Regulations

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1-Octene	111-66-0	Х	-	203-893-7	Х	Х	Х	Х	Х	KE-26673

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable

Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

CERCLA

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

**California Proposition 65** 

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1-Octene	Х	-	Х	-	-

### **U.S. Department of Transportation**

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1-Octene	111-66-0	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1-Octene	111-66-0	Notification Not applicable	Requirements Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	25-Oct-2010 25-Dec-2021 25-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**