

Safety Data Sheet ENEO3280 Date of issue: 08/29/2016 Version: 1.0

SECTION 1: Identification of the su	ibstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	: 1-OCTENE		
Product code	: ENEO3280		
Formula	: C8H16		
Synonyms	: n-OCTENE		
Cynonyma	CAPRYLENE		
Chemical family	: HYDROCARBON		
1.2. Relevant identified uses of the sub	bstance or mixture and uses advised against		
Use of the substance/mixture	: Chemical intermediate For research and industrial use only		
1.3. Details of the supplier of the safety	y data sheet		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA			
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com	0 AM - 5:30 PM EST		
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)		
SECTION 2: Hazards identification			
2.1. Classification of the substance or	mixture		
GHS-US classification			
Flam. Liq. 2 H225 Aquatic Acute 1 H400 Full text of H statements : see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)			
Signal word (GHS-US)	GHS02 GHS09		
•	: Danger		
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapor H400 - Very toxic to aquatic life		
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P210 - Keep away from heat, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P273 - Avoid release to the environment P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish P391 - Collect spillage P403+P235 - Keep in a cool place P501 - Dispose of contents/container to licensed waste disposal facility 		
	P391 - Collect spillage P403+P235 - Keep in a cool place		

No additional information available

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SECTION 3: Composition/Informa	ation on in	gredients		
3.1. Substance				
Substance type	: Multi-	constituent		
Name	: 1-00	TENE		
CAS No	: 111-6			
EC no	: 203-8	93-7		
Name		Product identifier	%	GHS-US classification
1-Octene		(CAS No) 111-66-0	95 - 100	Flam. Liq. 2, H225 Aquatic Acute 1, H400
2-Ethylhexene		(CAS No) 1632-16-2	0 - 3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2B, H320
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measure First-aid measures general		ove contaminated clothing and shoes. In case	of accide	at or if you feel upwell eack
nist-alu measures general	media	cal advice immediately (show the label where public show packaging or label.		
irst-aid measures after inhalation		: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
irst-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.			
irst-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, i present and easy to do. Continue rinsing. Get medical advice/attention.			
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.			
4.2. Most important symptoms and e	effects, both	acute and delayed		
Symptoms/injuries after inhalation	: May o	cause irritation to the respiratory tract.		
Symptoms/injuries after skin contact	: May cause mild skin irritation.			
Symptoms/injuries after eye contact	: May cause eye irritation.			
Symptoms/injuries after ingestion	: May b	be harmful if swallowed.		
I.3. Indication of any immediate me	dical attentio	n and special treatment needed		
lo additional information available				
SECTION 5: Firefighting measure	s			
.1. Extinguishing media				
Suitable extinguishing media	· Wate	r spray. Water fog. Foam. Carbon dioxide. Dry	chemical	
Jnsuitable extinguishing media	: None		chemica	
5.2. Special hazards arising from the Fire hazard	: Highl	y flammable liquid and vapor. Irritating fumes a rial is exposed to elevated temperatures or ope		ic acid vapors may develop whe
Explosion hazard		orm flammable/explosive vapor-air mixture.		
.3. Advice for firefighters	,			
Firefighting instructions	· Ever	ise caution when fighting any chemical fire. U	se water e	spray or fog for cooling exposed
	conta			pray or rog for cooling exposed
Protection during firefighting		ot enter fire area without proper protective equ all eye and skin contact and do not breathe v		
SECTION 6: Accidental release m				
5.1. Personal precautions, protective	e equipment	and emergency procedures		
General measures	: Elimir	nate every possible source of ignition. Use spe	cial care	to avoid static electric charges.
6.1.1. For non-emergency personnel	. \\/	protoctive equipment or dependent in Oration	0	
Protective equipment	: vvear	protective equipment as described in Section	o.	

Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.		
6.3. Methods and material for containme	nt and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods for cleaning up	 Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spillage. Use only non-sparking tools. 		
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal p	protection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces No smoking.		
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools.		
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
7.2. Conditions for safe storage, includin	g any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.		
Storage conditions	: Keep container tightly closed. Keep in a cool place.		
Incompatible materials	: Oxidizing agent.		
Storage area	: Store in a well-ventilated place. Store away from heat.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/perso	onal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Appropriate engineering controls	: Provide local exhaust or general room ventilation.		
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hand protection	: Neoprene or nitrile rubber gloves.		
Eye protection	: Chemical goggles. Contact lenses should not be worn.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.		
SECTION 9: Physical and chemical p	roperties		
9.1 Information on basic physical and cl			

9.1. Information on basic physical and	a chemical properties	
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 112.21 g/mol	
Color	: No data available	
Odor	: strong.	
Odor threshold	: No data available	
Refractive index	: 1.409	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: ~1	
Melting point	: <-102 °C	
Freezing point	: No data available	
Boiling point	: 121 - 122 °C	
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Flash point	: 21 °C
Auto-ignition temperature	: 221 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 13 mm Hg @ 20°C
Relative vapor density at 20 °C	: 3.9
Relative density	: 0.714
VOC content	: 100 %
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 0.7 - 6.8 vol % (lower; upper)
9.2. Other information	
No additional information available	

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Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.	
Symptoms/injuries after skin contact	: May cause mild skin irritation.	
Symptoms/injuries after eye contact	: May cause eye irritation.	
Symptoms/injuries after ingestion	: May be harmful if swallowed.	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Very toxic to aquatic life.	
1-Octene (111-66-0)	T	
LC50 fish 1	1 mg/l	
Persistence and degradability No additional information available		
12.3. Bioaccumulative potential		
1-Octene (111-66-0)		
Log Pow	4.57 (at 25 °C)	
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
Effect on ozone layer	: No additional information available	
Effect on the global warming	: No known effects from this product.	
SECTION 13: Disposal consideration	IS	
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do not dispose of waste into sewer.	
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.	
Additional information	: Handle empty containers with care because residual vapors are flammable.	
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		
14.1. UN number		
UN-No.(DOT)	: 3295	
DOT NA no.	UN3295	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Hydrocarbons, liquid, n.o.s.	
	(1-OCTENE)	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Hazard labels (DOT)	: 3 - Flammable liquid	
Packing group (DOT)	: II - Medium Danger	
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202	
· ·	: 242	
DOT Packaging Bulk (49 CFR 173.xxx)		
14.3. Additional information		
	: 128	

Transport by sea

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

1-Octene (111-66-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Ethylhexene (1632-16-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

1-Octene (111-66-0)

Listed on the AICS (Australian Inventory of Chemical Substances)		
Listed on the Canadian DSL (Domestic Substances List)		
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory		
Listed on the Korean ECL (Existing Chemicals List)		
Listed on NZIoC (New Zealand Inventory of Chemicals)		
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)		
Listed on INSQ (Mexican National Inventory of Chemical Substances)		
Listed on CICR (Turkish Inventory and Control of Chemicals)		
2-Ethylhexene (1632-16-2)		
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)		
Listed on the Canadian DSL (Domestic Substances List)		
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory		

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on KECI (Korean Existing Chemicals Inventory)

15.3. US State regulations

15.5. 05 State regulations				
1-OCTENE(111-66-0)				
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Propositio Toxicity	n 65 - Developmental	No		
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
1-Octene (111-66-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	
2-Ethylhexene (1632-16-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	
1-Octene (111-66-0)	•		·	
U.S Massachusetts - Righ U.S Pennsylvania - RTK (

SECTION 16: Other information

Abbreviations and acronyms : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H320	Causes eye irritation
H400	Very toxic to aquatic life

HMIS III Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability Physical

: 3 Serious Hazard

: 0 Minimal Hazard

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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