

SAFETY DATA SHEET

Creation Date 09-Aug-2010

Revision Date 05-Mar-2019

Revision Number 5

1. Identification **Product Name** 1-Octanol Cat No. : AC150630000; AC150630010; AC150630025; AC150630250; AC150632500 CAS-No 111-87-5 **Synonyms** Capryl alcohol Laboratory chemicals. **Recommended Use** Uses advised against Food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet Company

Fisher Scientific 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 Serious Eye Damage/Eye Irritation Category 4 Category 2

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Wear protective gloves/protective clothing/eye protection/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component		CAS-No	Weight %					
1-Octanol	1	11-87-5	>95					
	4. First-aid n	neasures						
General Advice	If symptoms persist, call a physician.							
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 plenty of water for at least 15 minutes. If skin irritation persists call a physician.							
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.							
Ingestion	Clean mouth with water and drink afterwards plenty of water.							
Most important symptoms and	. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomitir							
effects Notes to Physician	Treat symptomatically							
	5. Fire-fighting	measures						
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.							
Unsuitable Extinguishing Media	No information available							
Flash Point	81 °C / 177.8 °F							

Method -	No information available
Autoignition Temperature	253 °C / 487.4 °F
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Aldehydes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health	Flammability	Instability	Physical hazards						
2	2	0	N/A						
	6. Accidental re	lease measures							
Personal Precautions		quipment. Ensure adequate ve ry measures against static disc	ntilation. Remove all sources of						
Environmental Precautions		Should not be released into the environment. Do not flush into surface water or sanitary							
Methods for Containment and Up	Clean Soak up with inert absorbe Remove all sources of igni		closed containers for disposal.						
	7. Handling	and storage							
Handling		ingestion and inhalation. Keep	entilation. Do not get in eyes, on away from open flames, hot						
Storage	Keep containers tightly clo and sources of ignition.	sed in a dry, cool and well-ven	tilated place. Keep away from heat						
8	. Exposure controls	/ personal protecti	on						
Exposure Guidelines		tain any hazardous materials w gion specific regulatory bodies							
Engineering Measures		ons and safety showers are clo on, especially in confined areas	ose to the workstation location.						
Personal Protective Equipmen	<u>t</u>								
Eye/face Protection		re eyeglasses or chemical safe ection regulations in 29 CFR 1	ty goggles as described by 910.133 or European Standard						
Skin and body protection	Long sleeved clothing.								

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.							
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.							
9	. Physical and chemical properties							
Physical State	Liquid							
Appearance	Colorless							
Odor	sweet							
Odor Threshold	No information available							
рН	No information available							
Melting Point/Range	-16 °C / 3.2 °F							
Boiling Point/Range	195 °C / 383 °F							
Flash Point	81 °C / 177.8 °F							
Evaporation Rate	No information available							
Flammability (solid,gas)	Not applicable							
Flammability or explosive limits								
Upper	No data available							
Lower	No data available							
Vapor Pressure	0.03 mbar @ 20 °C							
Vapor Density	4.5 (Air = 1.0)							
Specific Gravity	0.824							
Solubility	Insoluble in water							
Partition coefficient; n-octanol/wate	r No data available							
Autoignition Temperature	253 °C / 487.4 °F							
Decomposition Temperature	No information available							
Viscosity	9 mPa.s at 20 °C							
Molecular Formula	C8 H18 O							
Molecular Weight	130.23							
	10 Stability and reactivity							

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Halogens, Acids, Acid anhydrides, Acid chlorides, Isocyanates			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Aldehydes				
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-Octanol	LD50 > 3200 mg/kg (Rat)	LD50 > 5 g/kg (Rabbit)	Not listed
Toxicologically Synergistic Products	No information available		

Irritation		Irritating to eyes						
Sensitization		No information ava	No information available					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcino						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
1-Octanol	111-87-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		Not mutagenic in A	MES Test	•				
Reproductive Effect								
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information available.						
STOT - single exposision STOT - repeated ex		None known None known						
Aspiration hazard		No information available						
Symptoms / effects delayed	s,both acute and	oth acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiti				ea and vomiting		
Endocrine Disruptor Information No information available								
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.						

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

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Harmful to aquatic organisms.

Freshwater Algae	Freshwater Fish	Microtox	Water Flea
EC50: = 14 mg/L, 48h static	LC50: 17.68 mg/L, 96h static	EC50 = 32.7 - 51.1 mg/L 48	EC50: 15 - 26 mg/L, 24h
(Desmodesmus	(Oncorhynchus mykiss)	h	(Daphnia magna)
subspicatus)	LC50: 11.4 - 12.9 mg/L, 96h	EC50 = 3.4 mg/L 5 min	
· ,	flow-through (Pimephales	EC50 = 3.71 mg/L 30 min	
	promelas)	EC50 = 4.73 mg/L 15 min	
	(Desmodesmus	(Desmodesmus subspicatus) (Oncorhynchus mykiss) LC50: 11.4 - 12.9 mg/L, 96h flow-through (Pimephales	subspicatus) LC50: 11.4 - 12.9 mg/L, 96h EC50 = 3.4 mg/L 5 min flow-through (Pimephales EC50 = 3.71 mg/L 30 min

Persistence and Degradability Persistence is unlikely

Bioaccumulation/Accumulation

No information available.

Mobility

. Is not likely mobile in the environment due its low water solubility.

Component	log Pow
1-Octanol	2.8

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	Not regulated						
TDG	Not regulated						

IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
1-Octanol	Х	Х	-	203-917-6	-		Х	Х	Х	Х	KE-2665
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Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable	
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	
OSHA Occupational Safety and Health Administration Not applicable		

CERCLA	Not applicable
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California Proposition 65	This product does not contain any Proposition 65 chemicals
	The product dood not contain any Troposition of chemicals

U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1-Octanol	-	-	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	09-Aug-2010 05-Mar-2019 05-Mar-2019 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