

# **SAFETY DATA SHEET**

Creation Date 09-Aug-2010	Revision Date 07-Apr-2014	Revision Number 1
	1. Identification	
Product Name	1-Octanol	
Cat No. :	150630025; AC150630250;	
Synonyms	Capryl alcohol	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safety	No Information available <u>data sheet</u>	
<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name 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 Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS).

Label Elements

Signal Word Warning

**Hazard Statements** Combustible liquid

Causes eye irritation May cause drowsiness or dizziness



**Precautionary Statements** 

Category 4 Category 2 Category 3

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

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

#### Keep cool Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

## 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 container tightly closed

Store locked up

### 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	111-87-5	>95					
	4. First-aid measures						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.						
Skin Contact	Wash off immediately with plenty of water for at lea symptoms occur.	st 15 minutes. Get medical attention if					
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.						
Ingestion	Do not induce vomiting. Obtain medical attention.						
Most important symptoms/effects							
Notes to Physician	nausea and vomiting Treat symptomatically						
	5. Fire-fighting measures						
Suitable Extinguishing Media	<b>Extinguishing Media</b> 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 Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	imits No data available No data available ity to Mechanical Impact 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 (CO<sub>2</sub>) 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.

NFPAHealth	Flammability	Instability	Physical hazards				
1	2	0	N/A				
	6. Accidental rele	ease measures					
Personal Precautions	Use personal protective equi eyes and clothing.	pment. Remove all sources of	f ignition. Avoid contact with skin,				
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological Information.						
Methods for Containment and Clea Up	n Remove all sources of ignitic closed containers for dispose		nt material. Keep in suitable,				
	7. Handling a	nd storage					
Handling		gestion and inhalation. Keep a	ntilation. Do not get in eyes, on away from open flames, hot				
Storage	Keep containers tightly close and sources of ignition.	d in a dry, cool and well-ventil	lated place. Keep away from heat				
8. E	xposure controls /	personal protectic	on				
Exposure Guidelines	This product does not contain established by the region spe		th occupational exposure limits				
Engineering Measures		s and safety showers are clos especially in confined areas.	e to the workstation location.				
Personal Protective Equipment							
Eye/face Protection		eyeglasses or chemical safety tion regulations in 29 CFR 19 <sup>-</sup>	y goggles as described by 10.133 or European Standard				
Skin and body protection	Wear appropriate protective	gloves and clothing to prevent	t skin exposure.				
Respiratory Protection	EN 149. Use a NIOSH/MSH/	regulations found in 29 CFR 1 A or European Standard EN 1 d or if irritation or other sympto					
Hygiene Measures	Handle in accordance with g	ood industrial hygiene and saf	fety 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 Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Relative Density Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition temperature Viscosity Molecular Formula Molecular Weight No information available Not applicable

No data available No data available 0.03 mbar @ 20 °C4.5 (Air = 1.0)0.824No information available 253 °C / 487.4 °FNo information available 9 mPa.s at 20 °C C8 H18 O 130.23

# 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	3200 mg/kg (Rat)	5000 mg/kg (Rabbit)	Not listed
Toxicologically Synergistic	No information available		

Products

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

Irritation Irritating to eyes

Sensitization No information available

Carcinogenicity

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

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 AMES Test							
Reproductive Effec	ts	No information ava	No information available.						
Developmental Effe	ects	No information available.							
Teratogenicity		No information available.							
STOT - single expo STOT - repeated ex		Central nervous system (CNS) None known							
Aspiration hazard		No information available							

Symptoms / effects, both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

# 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.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1-Octanol	14 mg/L EC50 = 48 h	17.68 mg/L LC50 96 h	EC50 = 32.7 - 51.1 mg/L 48	15 - 26 mg/L EC50 24 h
	-	11.4 - 12.9 mg/L LC50 96 h	h	
		_	EC50 = 3.4 mg/L 5 min	
			EC50 = 3.71 mg/L 30 min	
			EC50 = 4.73 mg/L 15 min	

Persistence and Degradability

May persist based on information available.

**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				
DOT TDG IATA	Not regulated				
ΙΑΤΑ	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

#### 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	Х

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
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SARA 311/312 Hazardous Categorization Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		Yes No Yes No No
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	

**OSHA** Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

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

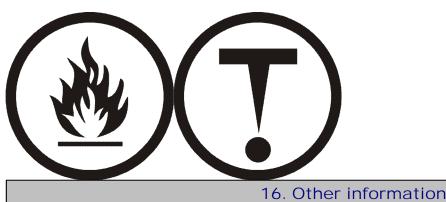
No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

#### **WHMIS Hazard Class**

B3 Combustible liquid D2B Toxic materials



**Prepared By** 

**Regulatory Affairs** Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com 07-Apr-2014 07-Apr-2014 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

# **End of SDS**