

# SAFETY DATA SHEET

Creation Date 21-May-2012

Revision Date 19-Jan-2018

**Revision Number** 4

1. Identification

AC277360000; AC277360010; AC277360050

Glycerol, 83-89%

Cat No. :

Synonyms

CAS-No

**Product Name** 

56-81-5 Glycerine

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

# Details of the supplier of the safety data sheet

<u>Company</u> 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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Glycerin	56-81-5	89
Water	7732-18-5	11

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 plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

#### 5. Fire-fighting measures Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Suitable Extinguishing Media **Unsuitable Extinguishing Media** No information available Flash Point 160 °C / 320 °F Method -No information available 400 °C / 752 °F **Autoignition Temperature Explosion Limits** Upper No data available Lower 1.1 % Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

### **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.

<u>NFPA</u>			
Health	Flammability	Instability	Physical hazards
0	0	1	N/A

	6. Accidental release measures
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions	Should not be released into the environment.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

# 8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Glycerin		(Vacated) TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
		(Vacated) TWA: 5 mg/m <sup>3</sup>		-
		TWA: 15 mg/m <sup>3</sup>		
		TWA: 5 mg/m <sup>3</sup>		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration

**Engineering Measures** 

None under normal use conditions.

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	Viscous liquid Liquid
Appearance	Clear
Odor	Slight
Odor Threshold	No information available
pH	5-7 10% aq. sol
Melting Point/Range	18 °C / 64.4 °F
Boiling Point/Range	290 °C / 554 °F
Flash Point	160 °C / 320 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	1.1 %
Vapor Pressure	0.003 mbar @ 50 °C
Vapor Density	3.17 (Water = 1.0)
Specific Gravity	1.227
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	400 °C / 752 °F
Decomposition Temperature	> 290°C
Viscosity	1069 mPa s at 20 °C
Molecular Formula	C3 H8 O3
Molecular Weight	92.09
-	

# 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stable under normal conditions.

Conditions to Avoid	Incompatible products. Exposure to moist air or water.		
Incompatible Materials	Acids, Strong oxidizing agents, lead oxides, Peroxides		
Hazardous Decomposition Produc	ts Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization Hazardous polymerization does not occur.			
Hazardous Reactions None under normal processing.			
11. Toxicological information			

# Acute Toxicity

Product Information	n					
Oral LD50		Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				
Dermal LD50		Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				
Vapor LC50		Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.				
<b>Component Informa</b>	tion				-	
Componen	t	LD50 Oral		LD50 Dermal		Inhalation
Glycerin		12600 mg/kg(Rat)	) >	10 g/kg (Rabbit)	> 2.75 mg/L	./4h ( Rat )(mist)
Water		-		Not listed	No	ot listed
Toxicologically Syn Products	-	No information ava				
Delayed and immed	iate effects as w	ell as chronic effe	cts from short a	nd long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether e	each agency has list	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Glycerin	56-81-5	Not listed	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	d No information available				
Endocrine Disrupto	docrine Disruptor Information No information available					
Other Adverse Effect	Other Adverse Effects The toxicological properties have not been fully investigated.					
		12. Ecolo	ogical info	rmation		
<b>F</b> = = ( = =   =   ( = )			•			

# Ecotoxicity Do not empty into drains. .

Component Freshwater Algae		Freshwater Fish	Microtox	Water Flea	

Glycerin	Not listed	LC50: 51 - 57 mL/L, 9 static (Oncorhynchus		EC50: > 500 mg/L, 24h (Daphnia magna)
		mykiss)		(Daprina magna)
Persistence and Degradability Persistence is unlikely				
Bioaccumulation/ Accumulation No information available.				
Mobility	. Will likely	be mobile in the environ	ment due to its water solubil	ity.
	Component		log Pow	
Glycerin			-1.76	
	12 0	lichocal concid	orations	
13. Disposal considerations				
hazardous waste. Chemie			etermine whether a discarde generators must also consu to ensure complete and a	
14. Transport information				
DOT Not regulated				
TDG	Not regulate			
<u>IATA</u>				
IMDG/IMO	Not regulate	ed		

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
Γ	Glycerin	Х	Х	-	200-289-5	-		Х	Х	Х	Х	Х
	Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х

15. Regulatory information

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

### California Proposition 65

This product does not contain any Proposition 65 chemicals

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

Regulations						
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Glycerin	Х	Х	Х	-	Х	
Water	-	-	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	21-May-2012 19-Jan-2018 19-Jan-2018 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**