

SAFETY DATA SHEET

Creation Date 07-Jan-2010

Revision Date 24-Dec-2021

Revision Number 12

1. Identification					
Product Name	GLYCEROL				
Cat No. :	AC158920000; AC158920010; AC158920025; AC158920100; AC158920250; AC158922500				
CAS No Synonyms	56-81-5 Glycerine				
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.				
Details of the supplier of the	safety data sheet				
Company					

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

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

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Co	3. Composition/Information on Ingredients					
Component Glycerin		CAS 1 56-81		Weight %		
Giyeenin				200		
	4. Fi	rst-aid mea	sures			
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	Remove to fresh	air. Get medical a	ttention immedia	ately if symptoms occur.		
Ingestion	Clean mouth wit symptoms occur		afterwards plenty	y of water. Get medical attention if		
Most important symptoms and	None reasonabl	y foreseeable.				
effects Notes to Physician	Treat symptoma	tically				
	5. Fire	-fighting me	easures			
Suitable Extinguishing Media	Water spray, ca	bon dioxide (CO2)	, dry chemical, a	alcohol-resistant foam.		
Unsuitable Extinguishing Media	No information a	vailable				
Flash Point	160 °C / 320 °F					
Method -	No information available					
Autoignition Temperature	400 °C / 752 °F					
Explosion Limits Upper No data available Lower 1.1 vol % Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available						
Specific Hazards Arising from the C Keep product and empty container awa		sources of ignition				
Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and vapors. 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 1	Flammability 1	,	Instability 1	Physical hazards N/A		
Personal Precautions		ntal release		S nsure adequate ventilation.		
Environmental Precautions		leased into the en				

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Protect from moisture. Do not freeze. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

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

<u>Legend</u>

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

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.			
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.			
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 Very viscous Liquid						
Appearance	Clear					
Odor	Slight					
Odor Threshold	No information available					
рН	5 100 g/L 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 vol %					
Vapor Pressure	0.003 mbar @ 50 °C					
Vapor Density	3.17					
Specific Gravity	1.261					
-						

Solubility Partition coefficient; n-octanol/wate Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight	Miscible with water No data available 400 °C / 752 °F > 290°C 1069 mPa.s at 20 °C C3 H8 O3 92.09
	10. Stability and reactivity
Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors

ation does not occur.
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Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informa						
Component		LD50 Oral		LD50 Dermal		nhalation
Glycerin		12600 mg/kg (Rat) > 10 g/kg (Rabbit) > 2.7		> 2.75 mg/L	/4h (Rat)(mist)	
oxicologically Syr	ergistic	No information ava	ailable			
	liate effects as w	ell as chronic effe	cts from short a	nd long-term expo	osure	
ritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether e	ach agency has list	ted any ingredient a	as a carcinoge
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Glycerin	56-81-5	Not listed	Not listed	Not listed	Not listed	Not listed
lutagenic Effects		No information ava	ailable			
eproductive Effec	ts	No information ava	ailable.			
Developmental Effe	ects	No information available.				
Feratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard No informat			ailable			
Symptoms / effects,both acute and No information available delayed						

Endocrine Disruptor Information

No information available

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Glycerin	Not listed	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)	Not listed	Not listed	
Persistence and Degrada	bility Persistence	is unlikely		I	
Bioaccumulation/ Accum	ulation No information	on available.			
Mobility	. Will likely b	e mobile in the environment d	ue to its water solubility	<i>'</i> .	
	Component		log Pow		
	Glycerin -1.76				
	13. Di	sposal considerat	ions		
Waste Disposal Methods	hazardous w	iste generators must determin aste. Chemical waste genera ardous waste regulations to er	ators must also consult	local, regional, and	

14. Transport information				
DOT	Not regulated			
DOT TDG	Not regulated			
ΙΑΤΑ	Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Glycerin	56-81-5	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

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
Glycerin	56-81-5	Х	-	200-289-5	Х	Х	Х	Х	Х	KE-29297

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

U.S. Federal Regulations

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glycerin	Х	Х	X	-	Х
U.S. Department of Trans	sportation				

U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
DOT Severe Marine Pollutant	Ν
DOT Marine Pollutant	Ν
Reportable Quantity (RQ):	N

Other International Regulations

Mexico - Grade

Slight risk, Grade 1

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)
Glycerin	56-81-5	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Glycerin	56-81-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
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Revision Summary

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). SDS sections updated. 2. 7. 10.

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