

# SAFETY DATA SHEET

Creation Date 21-Dec-2009

Revision Date 15-Mar-2018

**Revision Number** 1

1. Identification

Product Name	Glycerol
Cat No. :	36646
CAS-No	56-81-5
Synonyms	Glycyl alcohol; Glycerol; 1,2,3-Propanetriol
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

Company Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

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

**Hazard Statements** 

Precautionary Statements Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

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Component		CAS-No	Weight %				
Glycerin		56-81-5	100				
	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	h 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 effects	None reason	ably foreseeable.					
Notes to Physician	Treat symptomatically						
5. Fire-fighting measures							
Suitable Extinguishing Media	Dry chemical	l, soda ash, lime or sand.					
Unsuitable Extinguishing Media	DO NOT US	E WATER OR FOAM					
Flash Point	193 °C / 3	79.4 °F					
Method -	No information	on available					
Autoignition Temperature	400 °C / 7	52 °F					
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data avai 1.1 vol % t No informatio No informatio	on available					
Specific Hazards Arising from the C Keep product and empty container aw		and sources of ignition.					
Hazardous Combustion Products None known Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.		<b>Jhters</b> us pressure-demand, MSHA/NIOSH (a	pproved or equivalent) and full				

<u>NFPA</u> Health 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A			
6. Accidental release measures						
Personal Precautions Environmental Precautions		uipment. Ensure adequate ver the environment. See Sectio				

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 containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

# 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

Liquid	
Clear	
Slight	
No information available	
No information available	
20 °C / 68 °F	
290 °C / 554 °F	
193 °C / 379.4 °F	
No information available	
Not applicable	
No data available	
1.1 vol %	
.0025 mmHg @ 50 °C	
3.17 (Water = 1.0)	
1.2610 @ 20°C	
Miscible with water	
No data available	
400 °C / 752 °F	
No information available	
C3H8O3	
92.05	
	Clear Slight No information available No information available 20 °C / 68 °F 290 °C / 554 °F 193 °C / 379.4 °F No information available No data available 1.1 vol % .0025 mmHg @ 50 °C 3.17 (Water = 1.0) 1.2610 @ 20°C Miscible with water No data available 400 °C / 752 °F No information available No information available

10. Stability and reactivity								
Reactive Hazard	active Hazard None known, based on information available							
Stability	Stable under normal condit	tions. Unstable if heated.						
Conditions to Avoid	Incompatible products. Exc	ess heat.						
Incompatible Materials	Strong oxidizing agents							
Hazardous Decomposition Products None known								
Hazardous Polymerization Hazardous polymerization may occur.								
Hazardous Reactions	Hazardous Reactions None under normal processing.							
	11. Toxicologic	al information						
Acute Toxicity								
Product Information Component Information								
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation					
Glycerin	12600 mg/kg(Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L/4h ( Rat )(mist)					
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 and skin							

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	
Glycerin	56-81-5	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Mutagenic effects	have occurred in h	iumans.			
Reproductive Effect	S	No information ava	ailable.				
Developmental Effe	elopmental Effects No information available.						
Teratogenicity		No information ava	ailable.				
STOT - single exposureNone knownSTOT - repeated exposureNone known							
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	,both acute and	No information ava	ailable				
Endocrine Disrupto	r Information	No information ava	ailable				
Other Adverse Effe	cts	Tumorigenic effect	ts have been repoi	ted in experimenta	al animals.		
		12. Ecol	ogical infor	mation			
Ecotoxicity							

Ecotoxicity

Component	Freshv	vater Algae	Freshwa	ter Fish	Microtox	Water Flea		
Glycerin	Not listed		LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)					
ersistence and Degradability Persistence is unlikely								
Bioaccumulation/ Accumulation No information available.								
Mobility								
	Componer	nt		log Pow				
Glycerin				-1.76				
		13. Di	sposal c	onsidera	ations			
hazardous waste. Chem			aste. Chemic	al waste gene	nine whether a discarded erators must also consult ensure complete and ac			
		14. T	ranspor	t informa	ation			
DOT								
TDG	·							
		Not regulated						
IMDG/IMO		Not regulated	1					

#### 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
Glycerin	Х	Х	-	200-289-5	-		Х	Х	Х	Х	KE-2929
											7

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.

<b>U.S</b> .	Fede	ral Re	gulation	S

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glycerin	Х	X	X	-	X

#### 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

Slight risk, Grade 1

16. Other information				
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com			
Creation Date Revision Date Print Date Revision Summary	21-Dec-2009 15-Mar-2018 15-Mar-2018 SDS authoring systems update, replaces ChemGes SDS No. 56-81-5/1.			

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**