

## SAFETY DATA SHEET

Creation Date 19-Oct-2009

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

# Poly(ethylene glycol), average M.W. 400

Cat No. :

**Synonyms** 

CAS No

25322-68-3 PEG

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

AC192230000; AC192230010; AC192230050; AC192230051

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

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %
Polyethylene glycol		25322-68-3	>99
	4.	First-aid measures	
Eye Contact	Rinse immeo medical atter	liately with plenty of water, also under th ntion.	e eyelids, for at least 15 minutes. Get
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 attention immediately if symptoms occur. If not breathing, give artificial respiration.		
Ingestion	Get medical attention if symptoms occur. Get medical attention.		
Most important symptoms and effects	No information available.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point	235 °C / 455 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

## **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. 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 1	Flammability 1	Instability 1	Physical hazards N/A
		6. Accidental rel	ease measures	
Persona	I Precautions	Use personal protective eq with skin, eyes or clothing.	uipment as required. Ensure a	dequate ventilation. Avoid contact
Environr	nental Precautions		nment. See Section 12 for add	litional Ecological Information.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use

Up	spark-proof tools and explosion-proof equipment.			
	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. Incompatible Materials. Strong oxidizing agents.			
8. E	xposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.			
Engineering Measures Personal Protective Equipment	None under normal use conditions.			
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 a	and chemic	al properties
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7.11193100	ar and chemical properties
Physical State	Liquid
Appearance	No information available
Odor	Slight
Odor Threshold	No information available
рН	5.0-7.0 10% in water
Melting Point/Range	4 - 8 °C / 39.2 - 46.4 °F
Boiling Point/Range	> 200 °C / > 392 @ 760 mmHg
Flash Point	235 °C / 455 °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	<0.01 mmHg @ 20 °C
Vapor Density	No information available
Specific Gravity	1.128
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	110-125 mPa.s at 20 °C
Molecular Weight	400

## 10. Stability and reactivity

**Reactive Hazard** 

None known, based on information available

Stability	Stable under normal conditions. Hygroscopic.		
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moisture.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products 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 Oral LD50 Dermal LD50 Vapor LC50		Based on ATE dat	a, the classification	n criteria are not m n criteria are not m n criteria are not m	et. ATE > 2000 mg		
Component Informa							
Componen		LD50 Oral		LD50 Dermal		LC50 Inhalation	
Polyethylene gl	ycol	LD50 = 22 g/kg ( Ra	t) LD50	> 20 g/kg (Rabbit)	No	ot listed	
Products	Toxicologically Synergistic       No information available         Products       Delayed and immediate effects as well as chronic effects from short and long-term exposure_						
Delayed and mined	ale ellects as w				<u>suic</u>		
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has list	ed any ingredient	as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Polyethylene glycol	25322-68-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	S	No information available.					
Developmental Effect	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single exposureNone knownSTOT - repeated exposureNone known							
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	both acute and	nd No information available					
Endocrine Disruptor	ne Disruptor Information No information available						
Other Adverse Effects The toxicological properties have not been fully investigated.							
		12. Ecolo	ogical infor	mation			

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	

Polyethylene glycol	EC50 > 100 mg/L 96h,		LC50 > 100 mg/L 96h,	Not listed	EC50 > 100 mg/L 48h,
	(Scenedesn	nus subspicatus)	(Poecilia reticulata) OECD		(Daphnia magna)
		Guideline 201	Guideline 203		OÈCD Guideline 202
Persistence and Degrad	ability	Soluble in wa	ter Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accumulation No informatio		on available.			
Mobility Will likely be r		mobile in the environment	due to its water solubility.		
		13. Di	sposal considera	ations	
Waste Disposal Methods Chemical waste generators must determine wheth			nine whether a discarded	chemical is classified as a	

**thods** 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
<u>DOT</u> _ <u>TDG</u> IATA_	Not regulated
IATA_	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
Polyethylene glycol	25322-68-3	Х	ACTIVE	XU

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

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)

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
Polyethylene glycol	25322-68-3	Х	-	-	Х	Х	Х	Х	Х	KE-20228

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
<b>OSHA</b> - 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	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	<b>n</b> N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
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)
Polyethylene glycol	25322-68-3	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)
Polyethylene glycol	25322-68-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Creation Date	19-Oct-2009	
Revision Date	24-Dec-2021	
Print Date	24-Dec-2021	
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).	

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