

SAFETY DATA SHEET

Creation Date 12-Apr-2010

Revision Date 25-Dec-2021

Revision Number 6

	1. Identification
Product Name	Polysorbate 80
Cat No. :	AC278630000; AC278630010; AC278630025; AC278630050; AC278630100; AC278632500
CAS No Synonyms	9005-65-6 Polyoxyethylene(20)sorbitan monooleate
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	Acros Organics

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. Composition/Information on Ingredients				
Component Polyoxyethylene(20)sorbitan mo	CAS No. 9005-65		Weight % 100	
	4.	First-aid meas	ures	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact		nediately with plenty of if symptoms occur.	water for at leas	t 15 minutes. Get medical attention
Inhalation	Remove to fr	esh air. Get medical att	ention immediat	ely if symptoms occur.
Ingestion	Clean mouth symptoms or		terwards plenty	of water. Get medical attention if
Most important symptoms and effects	None reason	ably foreseeable.		
Notes to Physician	Treat sympto	omatically		
	5. Fi	re-fighting me	asures	
Suitable Extinguishing Media	Water sprav	carbon dioxide (CO2),	dry chemical al	cohol-resistant foam
Unsuitable Extinguishing Media	No informatio		ary onormoul, an	
Flash Point	> 110 °C /			
Method -	No informatio	on available		
Autoignition Temperature	No informatio	on available		
Explosion Limits Upper	No data avail	lable		
Lower	No data avail			
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No informatio			
Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors.				
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxide (CO ₂). 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	Flammab 1	ility	Instability 0	Physical hazards N/A

1	1	0	N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Use personal protective ec Should not be released int	uipment as required. Ensure ade o the environment.	quate ventilation.

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

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Store indoors. Incompatible Materials. Strong oxidizing agents. Bases. Heavy metals.		
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	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
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 a	and chemical properties
Physical State	Liquid
Appearance	Amber
Odor	No information available
Odor Threshold	No information available
рН	6 10 % aq.solution
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	> 110 °C / > 230 °F
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	<1 hPa @ 20 °C
Vapor Density	> 1.0
Specific Gravity	1.080
Solubility	Partially soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	400 mPa.s at 25°C

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents, Bases, Heavy metals	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

component miormation			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyoxyethylene(20)sorbitan	LD50 = 34500 µL/kg (Rat)	Not listed	Not listed
monooleate			
Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects fron	n short and long-term exposure	9

Irritation No information available

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
Polyoxyethylene(20)so	9005-65-6	Not listed	Not listed	Not listed	Not listed	Not listed
rbitan monooleate		No information ava				
Mutagenic Effects		NO INO INO INO AVA	allable			
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos	sure	None known				
STOT - repeated exp	osure	None known				
Aspiration hazard No information available						
<i>·</i> ·	,both acute and	No information available				
delayed	ea					
Endocrine Disruptor	Endocrine Disruptor Information No information available					
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		

Ecotoxicity Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea

Polyoxyethylene(20)sorbitan monooleate	Not listed	LC50: 471 mg/L/96h (Rainbow trout)	Not listed	Not listed
Persistence and Degrada	ability Soluble in w	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accumulation No information available.				
Mobility	Will likely be mobile in the environment due to its water solubility.			
	13. Di	isposal considera	ations	
Waste Disposal Methods	hazardous w	aste generators must deterr vaste. Chemical waste gen ardous waste regulations to	erators must also consult l	local, regional, and

	14. Transport information
DOT	Not regulated
DOT TDG	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
Polyoxyethylene(20)sorbitan monooleate	9005-65-6	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
Polyoxyethylene(20)sorbitan	9005-65-6	Х	-	-	Х	Х	Х	Х	Х	KE-25511
monooleate								1		

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	Not applicable		
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N		
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.		
Other International Regulations			
Mexico - Grade	No information available		
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)
Polyoxyethylene(20)sorbitan monooleate	9005-65-6	Not applicable	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)
Polyoxyethylene(20)sorbitan monooleate	9005-65-6	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 Revision Date Print Date Revision Summary	12-Apr-2010 25-Dec-2021 25-Dec-2021 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