



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 17-May-2023 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Polysorbate, from	n Plants
Product Code	164-21591,166-2	1595
Manufacturer		Chamical Corporation
Manufacturer	FUJIFILM Wako Pure 1-2 Doshomachi 3-Cho	
	Chuo-ku, Osaka 540-8	
	Phone: +81-6-6203-37	
	Fax: +81-6-6203-5964	T 1
Supplier	FUJIFILM Wako Pure	Chemical Corporation
oupplier		ome, Chuo-ku, Osaka 540-8605, Japan
	Phone: +81-6-6203-37	
	Fax: +81-6-6203-2029	
Emergency telephone number	+81-6-6203-3741 / +81	-3-3270-8571
Recommended uses	For research use only	
Restrictions on use		en using for purposes other than those recommended.
	Section 2: HAZAF	RDS IDENTIFICATION
GHS classification	• .	
Classification of the substance of		
Serious eye damage/eye irritation	n	Category 2B
Pictograms		
Signal word	Warning	
Hazard statements		
H320 - Causes eye irritation		
Precautionary statements-(Preve • Wash face, hands and any ex		er handling
Precautionary statements-(Resp		J. J
IF IN EYES: Rinse cautiously		utes. Remove contact lenses, if present and easy to do. Continue
rinsina		

• If eye irritation persists: Get medical advice/attention

- Precautionary statements-(Storage)
 - Not applicable

Precautionary statements-(Disposal)

• Not applicable

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Single Substance or Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Poly(oxyethylene)sorbita	=<100	N/A	8-55	9-2807	9005-65-6
n monooleate					
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	

Impurities and/or Additives:

Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and

then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

<u>Storage</u>

Safe storage conditions

Storage conditions Safe packaging material Incompatible substances Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Glass Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment Respiratory protection Hand protection Eye protection Skin and body protection

Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color
Turbidity
Appearance
Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or
explosive limits
Upper:
Lower:
Flash point
Auto-ignition temperature:
Decomposition temperature:
рН
Viscosity (coefficient of viscosity)
Dynamic viscosity
Solubilities
n-Octanol/water partition coefficient:(log Pow)
Vapour pressure
Specific Gravity / Relative density
Vapour density
Particle characteristics

Colorless - yellow brown clear ~ slightly muddy liquid no data available no data available no data available no data available no data available

no data available no data available 270 °C no data available 5.5 - 7.5 (50g/L, 25°C) no data available no data available Hot water , Ethanol and acetone : soluble . no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Poly(oxyethylene)sorbitan	34500 µL/kg (Rat)	N/A	N/A
monooleate			

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Contaminated container and contaminated packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Not regulated

Packing group Marine pollutant	Not applicable
IMDG	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	Netensieskie
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t Not applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Marine Pollution Prevention Law	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y
Pollutant Release and Transfer	Not applicable
Register Law	
(2023.4.1-)	
Export Trade Control Order	Not applicable
•	••

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Prodauct and company Identification. Exposure

The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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. GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet