

Version: 1.2 Revision Date: 03-31-2021

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

Product identifier: Polysorbate 20

Other means of identification Product No.: X251, RMB4034

## **Recommended restrictions**

**Recommended use:** For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

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

Company Name: Address:	Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person: E-mail:	Product Information Compliance info@avantormaterials.com

#### **Emergency telephone number:**

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

# 2. Hazard(s) identification

Hazard Classification

Not classified

#### Label Elements

Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	Not applicable
Precautionary Statements	Not applicable
s) not otherwise	None.

Hazard(s) not otherwise classified (HNOC):

# 3. Composition/information on ingredients

# Substances



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Composition Comments:	The components are not hazardous or are below required disclosure limits.
4. First-aid measures	
General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER/doctor if you feel unwell.
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.
Most important symptoms/effect	s, acute and delayed
Symptoms:	May cause irritation to skin, eyes and respiratory tract.
Hazards:	None known.
Indication of immediate medical	attention and special treatment needed
Treatment:	Treat symptomatically. Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	In case of fire and/or explosion do not breathe fumes.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	None.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.
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Notification Procedures:	Inform authorities if large amounts are involved. Prevent runoff from entering drains, sewers, or streams.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep container tightly closed. Store in a cool, dry place. Store in a well- ventilated place.
8. Exposure controls/personal	protection
Control Parameters	
Occupational Exposure Limit	S
	None of the components have assigned exposure limits.
Appropriate Engineering Controls	No data available.
Individual protection measures,	such as personal protective equipment
General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear approved chemical safety glasses or goggles where eye exposure is reasonably probable.
Skin Protection	
Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
9. Physical and chemical prop	erties
Appearance	

Physical state: Form: Color: Odor: Odor threshold: pH: SDS\_US - SDS00000831 Liquid Liquid Yellow, Amber Mild, Characteristic No data available. 6 - 7 (20 °C) (5% aqueous solution)

Melting point/freezing point:	-6422 °C
Initial boiling point and boiling range:	> 100 °C
Flash Point:	148 °C (Closed Cup)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive	e limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.10 g/ml (20 °C)
Relative density:	1.10 (25 °C)
Solubility(ies)	
Solubility in water:	0.2 mg/l (20 °C)
Solubility (other):	alcohol: Soluble methanol: Soluble
Partition coefficient (n-octanol/water):	2.88
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	22 mm2/s (100 °C)

# 10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames. Sunlight. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Acids.
Hazardous Decomposition Products:	Oxides of Carbon.

# 11. Toxicological information

#### Information on likely routes of exposure Inhalation:

May be harmful if inhaled.

Skin Contact:	Prolonged skin contact may cause temporary irritation.
Eye contact:	May cause temporary eye irritation.
Ingestion:	May be harmful if swallowed.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)	
Oral Product:	LD 50 (Rat): 37,000 mg/kg
Dermal Product:	No data available.
Inhalation Product:	LC 50 (Rat, 4 h) > 5.1 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	Prolonged skin contact may cause temporary irritation.
Serious Eye Damage/Eye Irritati Product:	on May cause temporary eye irritation.
Respiratory or Skin Sensitizatio Product:	n Not a skin nor a respiratory sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evalu No carcinogenic component	ation of Carcinogenic Risks to Humans: ts identified
US. National Toxicology Progra No carcinogenic component	m (NTP) Report on Carcinogens: ts identified
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified	
Germ Cell Mutagenicity	
In vitro Product:	No mutagenic components identified
In vivo Product:	No mutagenic components identified
Reproductive toxicity Product:	No components toxic to reproduction
Specific Target Organ Toxicity - Single Exposure   Product: No data available.	
Specific Target Organ Toxicity - Product:	• Repeated Exposure No data available.
Aspiration Hazard Product:	Not classified



Other effects:

None known.

12. Ecological information	
Ecotoxicity:	
Acute hazards to the aquation	environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aqua	tic environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (E Product:	<b>3CF)</b> No data available on bioaccumulation.
Partition Coefficient n-octanol / Product:	V water (log Kow) Log Kow: 2.88
Mobility in soil:	The product is water soluble and may spread in water systems.
Other adverse effects:	Not expected to be harmful to aquatic organisms. Low acute toxicity to aquatic organisms.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.



# 14. Transport information

#### DOT

Not regulated.

### IMDG

Not regulated.

### ΙΑΤΑ

Not regulated.

## 15. Regulatory information

### **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

# Hazard categories

Not classified

#### SARA 302 Extremely Hazardous Substance None present or none present in regulated quantities.

# SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

# SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

# SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

#### **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.



# US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

### International regulations

# Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### Kyoto protocol

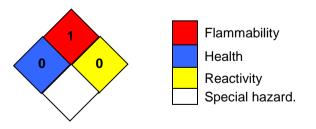
Not applicable

#### **Inventory Status:**

Australia AICS: Canada DSL Inventory List: China Inv. Existing Chemical Substances: Japan (ENCS) List: Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): Mexico INSQ: New Zealand Inventory of Chemicals: Philippines PICCS: Taiwan Chemical Substance Inventory: US TSCA Inventory: EINECS, ELINCS or NLP: On or in compliance with the inventory On or in compliance with the inventory

# 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	03-31-2021
Revision Information:	Not relevant.
Version #:	1.2

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Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.
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