

## 1. Identification

1.1. Product identifier

Product Identity Alternate Names Polysorbate 20 Polysorbate 20

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

See Technical Data Sheet.

**1.3.** Details of the supplier of the safety data sheet

**Company Name** 

Silver Fern Chemical, Inc. 2226 Queen Anne Avenue North Seattle, WA 98109 USA Customer Service: 1-866-282-3384 / info@silverfernchemical.com Website - www.silverfernchemical.com

Emergency 24 hour Emergency Telephone No.

#### Emergency telephone number Infotrac: 1-800-535-5053; Outside USA & Canada +1-352-323-3500

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

No applicable GHS categories.

#### 2.2. Label elements

No applicable GHS categories.

#### [Prevention]

Silver Fern Chemical, Inc. Safety Data Sheet Polysorbate 20 Page 1 of 10 No GHS prevention statements [Response] No GHS response statements [Storage] No GHS storage statements [Disposal] No GHS disposal statements

# 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations		Weight %	<b>GHS</b> Classification	Notes
Polysorbate 20 0009005-64-5	CAS Number:	100	Not Classified	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. \*PBT/vPvB - PBT-substance or vPvB-substance. The full texts of the phrases are shown in Section 16.

# Section 4. First aid measures

#### **4.1. Description of first aid measures**

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

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Overview

No specific symptom data available. Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details.

# Section 5. Fire-fighting measures

## 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO 2, powder, water spray. Unsuitable extinguishing media: Do not use; water jet.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

# **5.3.** Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

## ERG Guide No.

## Section 6. Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

## **6.2.** Environmental precautions

Do not allow spills to enter drains or waterways.

## 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

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# Section 7. Handling and storage

## 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage. Check section 2.2 (GHS Label Elements) for further details. - [Prevention]

## 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information Check section 2.2 (GHS Label Elements) for further details. - [Storage]

## 7.3. Specific end use(s)

No available information

## Section 8. Exposure controls / personal protection

## 8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0009005-64-5	Polysorbate 20	OSHA	No Established Limit
ACGIH	No Established Limit		
NIOSH	No Established Limit		

#### 8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use
	the appropriate, certified respirators.
Eyes	Protective safety glasses recommended
Skin	Avoid skin contact. Protective gloves recommended.
Engineering Controls	s Provide adequate ventilation. Where reasonably practicable this should be
	achieved by the use of local exhaust ventilation and good general extraction. If
	these are not sufficient to maintain concentrations of particulates and any vapor
	below occupational exposure limits suitable respiratory protection must be worn.
Other Work	Use good personal hygiene practices. Wash hands before eating, drinking,
Practices	smoking or using toilet. Promptly remove soiled clothing and wash thoroughly
	before reuse.
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Check section 2.2 (GHS Label Elements) for further details.

## Section 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Appearance	Yellowish Liquid
Odor	Odorless
Odor threshold	Odorless
рН	5.0 - 7.0 (5% w/w, 25°C)
Melting point / freezing point	No available information
Initial boiling point and boiling	g>100 °C
range	-
Flash Point	> 150  °C (open cup)
<b>Evaporation rate (Ether = 1)</b>	No available information
Flammability (solid, gas)	No available information
Upper/lower flammability or	Lower Explosive Limit: No available information
explosive limits	
	Upper Explosive Limit: No available information
Vapor pressure (Pa)	No available information
Vapor Density	No available information
<b>Relative Density</b>	No available information
Solubility in Water	(20 °C for 1 hour/concentration of 0.5%)
Partition coefficient n-	No available information
octanol/water (Log Kow)	
Auto-ignition temperature	No available information
Decomposition temperature	No available information
Viscosity (cSt)	c.a. 400 mPa.s (25 °C)
Oxidising properties	No available information
Explosive properties	No available information
<b>Relative Density</b>	1100 kg/m 3 (25 °C)

#### **9.2.** Other information

No other relevant information.

# Section 10. Stability and reactivity

## 10.1. Reactivity

Hazardous Polymerization will not occur.

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10.2. Chemical stability
Stable under normal circumstances.
10.3. Possibility of hazardous reactions
No available information
10.4. Conditions to avoid
Avoid high temperatures and contact with incompatible material
10.5. Incompatible materials
No available information
10.6. Hazardous decomposition products
No hazardous decomposition data available.

## Section 11. Toxicological information

#### Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Polysorbate 20 - (9005- 64-5)	36,700.00, Rat - Category: NA	> 3,000.00, Guinea Pig - Category: 5	No data available	No data available	No data available

#### **Carcinogen Data**

CAS No.	Ingredient	Source	Value
0009005-64-5	Polysorbate 20	OSHA	Regulated Carcinogen: No;
NTP	Known: No;		
	Suspected: No;		
IARC	Group 1: No;		
	Group 2a: No;		
	Group 2b: No;		
	Group 3: No;		
	Group 4: No;		
ACGIH	No Established		
	Limit		

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Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

## Section 12. Ecological information

## 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data. Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish,	48 hr EC50	ErC50 algae,
	mg/L	crustacea, mg/L	mg/L
Polysorbate 20 - (9005-64-5)	> 100.00, Brachydanio rerio	Not Available	EL50 58.84 (72 hr), Raphidocelis subcapitata

## 12.2. Persistence and degradability

There is no data available on the preparation itself.

# 12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No available information

### Section 13. Disposal considerations

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## 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information					
	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA		
14.1. UN number	Not Regulated	Not Regulated	Not Regulated		
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated		
14.3. Transport hazard class(es)	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable Sub Class: Not		
14.4. Packing group		Not Applicable	Applicable Not Applicable		

## 14.5. Environmental hazards

Marine Pollutant: No;

14.6. Special precautions for user

No available information

## Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic SubstancePolysorbate 20 (CAS# 9005-64-5) is listed and active on the TSCA Inventory.Control Act (TSCA)

**EPCRA 302 Extremely Hazardous:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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Proposition 65 - Carcinogens (>0.0%):

1,4-dioxane

Ethylene Oxide

**Proposition 65 - Developmental Toxins (>0.0%):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):** 

Ethylene Oxide

Proposition 65 - Male Repro Toxins (>0.0%):

Ethylene Oxide

## **Proposition 65 Label Warning:**



WARNING: This product can expose you to chemicals including [1,4-dioxane, Ethylene Oxide], which are known to the State of California to cause cancer, and [Ethylene Oxide], which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**New Jersey RTK Substances** (>1%) : To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# Section 16. Other information

**Revision Date** 04/27/2023

# DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

Not Applicable

## **End of Document**

Approved - TL 4-27-23

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