



Silver Fern Chemical, Inc.
Safety Data Sheet
Polysorbate 20

Revision Date: 07/31/2024

Section 1. Identification

Product Identifier

Product Identity

Polysorbate 20

Other Means of Identification

Polysorbate 20 Technical Grade

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

See Technical Data Sheet.

Details of the Supplier of the Safety Data Sheet

Company Name

Silver Fern Chemical, Inc.
121 W. De La Guerra Street, Suite B
Santa Barbara, CA 93101 USA

Customer Service:

1-866-282-3384 / info@silverfernchemical.com
Website - www.silverfernchemical.com

**24-hour Emergency
Telephone No.**

**Infotrac: 1-800-535-5053;
Outside USA & Canada +1-352-323-3500**

Section 2. Hazard(s) Identification

Classification of the Substance or Mixture Under OSHA's Hazard Communication Standard (1910.1200) Revised 2024 (GHS Revision 7)

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.

Label Elements

The substance is not classified according to the OSHA Hazcom or WHMIS regulations.



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[Prevention]

No GHS prevention statements.

[Response]

No GHS response statements.

[Storage]

No GHS storage statements.

[Disposal]

No GHS disposal statements.

Other Hazards

This product contains no PBT/vPvB chemicals.

This product contains no endocrine disrupting chemicals.

Section 3. Composition/Information on Ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Polysorbate 20 CAS Number: 9005-64-5 Synonyms: Polysorbate 20 Food Grade	100%	Not Classified.	No data available.

The actual concentration or concentration range is 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

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.



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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.

Most Important Symptoms and Effects, Both Acute and Delayed

Overview No specific symptom data available.
Treat symptomatically. See section 2 for further details.

Section 5. Fire-Fighting Measures

Extinguishing Media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special Hazards Arising from the Substance or Mixture

Hazardous Decomposition: No hazardous decomposition data available.

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

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.

Environmental Precautions

Do not allow spills to enter drains or waterways.



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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.

Section 7. Handling and Storage

Precautions for Safe Handling

Handle containers carefully to prevent damage and spillage.
See section 2 for further details. - [Prevention]

Conditions for Safe Storage, Including any Incompatibilities

Incompatible materials: No available information.
See section 2 for further details. - [Storage]

Specific End Use(s)

No available information.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Exposure

CAS No.	Ingredient	Source	Value
9005-64-5	Polysorbate 20	OSHA	No established limit.
		ACGIH	No established limit.
		NIOSH	No established limit.

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.



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Engineering Controls	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 Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid.
Color	Yellowish.
Odor	Odorless.
Melting Point / Freezing Point	No available information.
Initial Boiling Point and Boiling Range	> 100 °C
Flammability (Solid, Gas)	No available information.
Upper/Lower Flammability or Explosive Limits	Lower Explosive Limit: No available information. Upper Explosive Limit: No available information.
Flash Point	> 150 °C (open cup)
Auto-Ignition Temperature	No available information.
Decomposition Temperature	No available information.
pH	5.0 - 7.0 (5% w/w, 25°C)
Viscosity (cSt)	c.a. 400 mPa.s (25 °C)
Solubility in Water	(20 °C for 1 hour/concentration of 0.5%)
Partition Coefficient N-Octanol/Water (Log K_{ow})	No available information.
Vapor Pressure (Pa)	No available information.
Vapor Density	No available information.
Evaporation Rate (Ether = 1)	No available information.
Oxidizing Properties	No available information.
Explosive Properties	No available information.
Relative Density	1100 kg/m ³ (25 °C)



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Other Information

No other relevant information.

Section 10. Stability and Reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical Stability

Stable under normal circumstances.

Possibility of Hazardous Reactions

No available information.

Conditions to Avoid

Avoid high temperatures and contact with incompatible material.

Incompatible Materials

No available information.

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: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
9005-64-5	Polysorbate 20	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		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.

Possible routes of entry:

Symptoms and effects, both acute and delayed:

No specific symptom data available.

Treat symptomatically.

Section 12. Ecological Information

Toxicity

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

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Polysorbate 20 - (9005-64-5)	> 100.00, Brachydanio rerio	No data available.	EL50 58.84, Raphidocelis subcapitata

Persistence and Degradability

There is no data available on the preparation itself.

Bioaccumulative Potential

No available information.

Mobility in Soil



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No available information.

Results of PBT and vPvB Assessment

This product contains no PBT/vPvB chemicals.

Other Adverse Effects

No available information.

Section 13. Disposal Considerations

Waste Treatment Methods

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

Section 14. Transport Information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN Number	Not regulated.	Not regulated.	Not regulated.
UN Proper Shipping Name	Not regulated.	Not regulated.	Not regulated.
Transport Hazard Class(es)	DOT Hazard Class: Not applicable. Sub Class: Not applicable.	IMDG: Not applicable. Sub Class: Not applicable.	Air Class: Not applicable. Sub Class: Not applicable.
Packing Group	Not applicable.	Not applicable.	Not applicable.

Environmental Hazards

Marine Pollutant: No.

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.



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Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0009005-64-5	Polysorbate 20	Yes	XU	ACTIVE

The Following Flags are Used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Mass RTK Substances (>1%):

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.

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.



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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

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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

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