



SILVER FERN
CHEMICAL INC

SILVER FERN CHEMICAL

Safety Data Sheet

OP-5 Surfactant

1 - Product and Company Identification

Product Identification: OP-5 Surfactant (Polyethylene glycol octylphenyl ether, CAS No. 9036-19-5)

Supplier:

Silver Fern Chemical Inc.
2226 Queen Anne Avenue North
Seattle WA, 98109, USA
1-866-282-3384

Business Contact:

Customer Service: 1-866-282-3384
info@silverfernchemical.com

24 Hour Emergency telephone

Infotrac: 1-800-535-5053 (USA & Canada)
Outside USA & Canada 1-352-323-3500

2 – Hazards Identification

HMIS Rating:	Health: 2	Fire: 1	Reactivity: 0	PPE: X
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GHS Classification: Acute Toxicity – Oral, Category 4, Skin Corrosion/irritation, Category 2, Serious eye damage/eye irritation, Category 2A

Signal Word:

“WARNING”

Health Hazards:

H319: Causes serious eye irritation
H315: Causes skin irritation



H401: Toxic to aquatic life

Environmental Hazards:

Precautionary Statements:

P264: Wash thoroughly after handling
P280: Wear protective clothing/eye protection
P273: Avoid release to the environment
P332+P313: If skin irritation occurs: Get medical advice/attention.
P305 + P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty water.
P263+P364: Take off contaminated clothing and wash it before reuse
P501: Dispose of contents/container in accordance with local/regional/national/international regulations



SILVER FERN
C H E M I C A L I N C

3 – Composition/Information on Ingredients

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
9036-19-5	Polyethylene glycol octylphenyl ether	~100

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

4 - First Aid Measures

Eyes:	IF IN EYES: Rinse cautiously with water for several (15) minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical attention
Skin:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
Ingestion:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

5 - Firefighting Measures

Extinguishing Media:	Water Spray, Foam, Dry Chemical, Carbon Dioxide
Unsuitable Extinguishing Media:	None
Special Protective Equipment for Firefighters:	Wear Self Contained Breathing Apparatus when fighting fire
Unusual Fire & Explosion Hazards:	None Known



6 - Accidental Release Measures

Personal precautions:	Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not get in eyes, on skin, or on clothing Wash thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection
Environmental precautions:	Avoid release to the environment Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.
Methods for Containment/Cleaning Up:	Use neutralizing agent. Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.

7 - Handling and Storage

Handling:	Do not get in eyes, on skin, or on clothing Wash thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection
Storage:	Store in a dry place. Store in a closed container
Special Packaging Requirements:	Store in a corrosive resistant container with a resistant inner liner.
Incompatible Materials or Fire/Explosion Protection:	None Known

8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):	
Hand Protection:	Chemical Resistant Gloves
Eye Protection:	Chemical Goggles or Glasses with Side shields
Skin Protection:	Protective Clothing
Respiratory Protection:	The use of a NIOSH approved respirator protection may be needed if working in a poor ventilated area.
Engineering Measures/Controls:	
Ventilation:	Ensure adequate ventilation, especially in confined area
Other measures:	Eye wash and safety shower in work area



9 - Physical and Chemical Properties

Form and Appearance:	Liquid, yellow	Odor:	Mild
pH, 1% DI Water:	5.0-8.0	Odor Threshold:	N/A
Boiling Point:	>210 °F (>100°C)	Melting/Freezing point:	N/A
Vapor Pressure:	N/A	Vapor Density (Air=1):	<0.01 mmHg @ 20°C calculated
Flash Point:	~425°F (>200°C)	Evaporation Rate:	N/A
UEL:	N/A	LEL:	N/A
Viscosity:	N/A	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/A	Specific Gravity/ Bulk Density:	~1.03 g/ml@20°C
Auto-ignition temperature:	N/A	Decomposition Temperature:	N/A

10 - Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Incompatible Materials:	Avoid contact with strong acids and strong oxidizing agents
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon.

11 - Toxicological Information

Acute Data:	
Routes of Exposure:	Eye contact, skin contact, ingestion, inhalation (mist, vapors).
Eye Contact:	May cause moderate eye irritation, may cause moderate corneal injury, Effects may result in slow healing
Skin Contact:	Slight Irritant with local redness
Ingestion:	Not Determined
Inhalation:	Not Determined
Skin Sensitization:	Not Determined



Acute Toxicity/Effects:

Test:	Test type:	Species:	Results:	Comments:
Oral Toxicity	LD50	Rat	>4000 mg/kg	Per literature
Dermal Toxicity	LD50	Rabbit	>3,000 ml/kg	-
Inhalation Toxicity	LC50	N/D	N/D	-
Eye Irritation		N/D	N/D	

Chronic Data:

Carcinogenicity:	IARC	No	NTP	No	ACGIH	No	OSHA	No
Mutagenicity:	No relevant data found							
Reproductive Effects:	No relevant data found							
Target Organ Effects:	NDA							

12 - Ecological Information

Ecotoxicity/Effects:

Test:	Test type:	Species:	Results:	Comments:
Acute Toxicity to Fish	LC50	Flathead Minnow	1.4-1.8 mg/L (96h)	Category 2 Acute
Acute Toxicity to Aquatic Invertebrates	EC50	Daphnia magna	1.0-8.4 mg/L (48h)	-
Acute Toxicity to Aquatic Plants	N/D	N/D	N/D	-
Chronic Toxicity to Fish:	N/D	N/D	N/D	-

Environmental Fate:

Persistence/Degradability:	>60% biodegradation in 28 days OECD. Readily biodegradable
COD/BOD5:	NDA
Bioaccumulation Potential:	Not expected to bioaccumulate in the environment
Mobility in Soil:	Dispersible in water
Other Adverse Effects:	NDA



13 - Disposal Considerations

Product: Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.

Packaging: Do not remove labels until the product has been fully removed and the package cleaned.
The preferred options for disposal include reuse, recycle or reclamation at licensed facilities.
All procedures must follow specific operation standards in order to reduce health, safety and environmental risks.
The disposal must comply with all local legislation and in accordance with standards from local environmental agencies.

14 - Transport Regulations

US DOT Regulations (Land Transport): Not DOT regulated < 119 gallons

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Polyethylene glycol octylphenyl ether)

Hazard Class: 9

UN Number: UN3082

Packing Group: 3

Label Required:

Other Information:

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Polyethylene glycol octylphenyl ether)

Hazard Class: 9

UN Number: UN3082

Packing Group: III

Label Required:

EMS Number:

Segregation Groups:

Marine Pollutant (Y/N): yes

Other Information: -



15 - Regulatory Information

Contents of this MSDS comply with the OSHA standard 29 CFR 1910.1200/HazCom 2012.

Domestic Regulations:

TSCA Status: All the components in this material are listed on or exempt from the TSCA inventory.

SARA Title 302 (Extremely Hazardous Substances): TPQ – None.

SARA Title 304 (Extremely Hazardous Substances): RQ – None.

CERCLA Hazardous Substances (RQ): None

SARA 311/312 Hazard Categorization: Acute Chronic Fire Pressure Reactive

Clean Air Act Section 112 (TQ): TQ – Not listed.

State Information:
California Proposition 65: May contain trace levels of chemicals, including 1,4 Dioxane (123-91-1) and Ethylene Oxide (75-21-8), known to the State of California to cause cancer, birth defects, or other reproductive harm.

State Right to Know/ Hazardous Substance List Information: The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.
None Known, Possible trace levels of 1,4 Dioxane (123-91-1) and Ethylene Oxide (75-21-8)
This is not an exhaustive list. For information on listings in other states, please consult that state’s RTK/HSL.

16 - Additional Information

Key to Abbreviations:

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

DISCLAIMER OF RESPONSIBILITY

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