

SILVER FERN CHEMICAL, INC.

Safety Data Sheet

Fernol 900

Revision Date 01/21/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: FERNOL 900	
Product Use Description	: Surfactant	
Distributor	: Silver Fern Chemical, Inc. 2226 Queen Anne Ave. North, Suite C Seattle, WA 98109, USA Phone: 1-866-282-3384	Business Contact Customer Service : 1-866-282-3384 info@silverfernchemical.com
Emergency phone number:	: 24 Hour Emergency Contact Infotrac 1-800-535-5053 (USA & Canada) Outside USA & Canada 1-352-323-3500	

2. HAZARDS IDENTIFICATION

GHS classification

Serious Eye Damage - Category 1

GHS label elements

Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H318:Causes serious eye damage.

Precautionary Statements:

Prevention

: P280:Wear eye protection/face protection.



Response

: P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 :Immediately call a POISON CENTRE or doctor/physician.

Hazards not otherwise classified

Severe eye irritant. Moderate respiratory irritant. Moderate skin irritant. Risk of serious damage to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Alcohols, C9-11, ethoxylated	68439-46-3	60% - 100 %

CHEMICAL FAMILY: Ethoxylated Alcohol The remaining components are trade secret.

4. FIRST AID MEASURES

General advice	:	Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
Eye contact	:	Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
Skin contact	:	Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.
Ingestion	:	Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.
Inhalation	:	If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.
Most important symptoms/effects - acuate and delayed	:	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.Eye disease. Asthma. Skin disorders and Allergies.

5. FIRE-FIGHTING MEASURES



Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Dry sand. Limestone powder.	
Specific hazards	Incomplete combustion may form carbon monoxide. Burning product and toxic fumes. Downwind personnel must be evacuated.	es noxious
Special protective equipment for fire-fighters	Use personal protective equipment. Wear self contained breathing a for fire fighting if necessary.	apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	: Wear suitable protective clothing, gloves and eye/face protection. Use se contained breathing apparatus and chemically protective clothing. Evacua personnel to safe areas.	
Environmental precautions	: Construct a dike to prevent spreading.	
Methods for cleaning up	: Contact Air Products' Emergency Response Center for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container.	
Additional advice	: Open enclosed spaces to outside atmosphere. If possible, stop flow of pre	oduct.

7. HANDLING AND STORAGE

Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Keep away from direct sunlight. Overheating of an ethoxylate stored under air should be avoided. When an ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures >125 F (50 C), it can degrade product quality. Storage under an inert atmosphere is recommended. Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Temperature : 45 - 100 °F (7.22 - 37.77 °C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.



Personal protective equipment

Respiratory protection	: Wear appropriate respirator when ventilation is inadequate.
Hand protection	 Neoprene gloves. Nitrile rubber. Polyvinyl Alcohol Gloves (PVA). Impervious gloves. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Chemical resistant goggles must be worn.
Skin and body protection	: Long sleeve shirts and trousers without cuffs.
Special instructions for protection and hygiene	: Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid. Hazy.
Odor	: Mild.
Odor threshold	: No data available.
рН	: 6.5
Melting point/range	: 36 - 59 °F (2.22 - 15 °C)
Boiling point/range	: > 491 °F (> 255 °C)
Flash point	: 306 °F (152.2 °C)
Evaporation rate	: No data available.
Flammability (solid, gas)	: Not applicable.
Upper/lower explosion/flammability limit	: Not applicable.
Vapor pressure	: No data available.
Water solubility	: Slightly soluble.



Relative vapor density	: Not applicable.
Relative density	: 0.981
Partition coefficient (n- octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity Molecular Weight	: 50 mPa.s at 100 °F (37.77 °C) : No data available.

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	 Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Copper alloys Strong acids. Oxidizing agents.
Hazardous decomposition products	 Carbon monoxide. Carbon dioxide (CO2). Aldehydes Flammable hydrocarbon fragments.
Possibility of hazardous Reactions/Reactivity	: No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure	
Effects on Eye	: Severe eye irritation.
Effects on Skin	: Causes skin irritation.
Inhalation Effects	: May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.
Ingestion Effects	: No data available.
Symptoms	: Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Eye disease., Asthma., Skin disorders and

Allergies.

Acute toxicity

Acute Oral Toxicity	: LD50 : > 2,000 mg/kg Species : Rat.
Inhalation	: No data is available on the product itself.
Acute Dermal Toxicity	: LD50 : 3,300 mg/kg Species : Rat.
Skin corrosion/irritation	: Skin irritation.
Serious eye damage/eye irritation	: Severe eye irritation.
Sensitization.	: No data available.

Chronic toxicity or effects from long term exposures

Carcinogenicity	: No data available.
Reproductive toxicity	: No data is available on the product itself.
Germ cell mutagenicity	: No data is available on the product itself.
Specific target organ systemic toxicity (single exposure)	: No data available.
Specific target organ systemic toxicity (repeated exposure)	: No data available.
Aspiration hazard	: No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Eye disease., Asthma., Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.



Toxicity to fish - Components Alcohols, C9-11, ethoxylated	LC50 (96 h) : 1 - 10 mg/l	Species : Fathead minnow (Pimephales promelas).			
Toxicity to daphnia - Components Alcohols, C9-11, ethoxylated	EC50 (48 h) : 1 - 10 mg/l	Species : Daphnia			
Toxicity to algae - Components Alcohols, C9-11, ethoxylated	ErC50 (96 h) : 1 - 10 mg/l	Species : Algae.			
Toxicity to other organisms : No data available.					

Persistence and degradability

Biodegradability	:	Readily biodegradable, as defined by OECD, substance that degrades > 60- 70% within a 10 day window over 28 days.
Mobility	:	No data available.
Bioaccumulation	:	No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	:	Contact supplier if guidance is required.
Contaminated packaging	:	Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods



TDG

Not dangerous goods

Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

- EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification Acute Health Hazard
- EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level None.
- US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

This product meets the criteria of the US EPA Design for Environment (DfE) Surfactant screen and is listed on CleanGredients.

16. OTHER INFORMATION

HMIS Rating



Health Flammability Physical hazard	:	2 1 0
REVISION NOTES	:	3. HAZARDS IDENTIFICATION 11. TOXICOLOGICAL INFORMATION

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, expressed 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 responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way 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.

<end of document>



Approved - TL 9-13-17