
Section 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURED FOR:

Power-Line Products
PO Box 475
Rupert, ID 83350

EMERGENCY TELEPHONE NO.:

DAYS: (208) 531-4100
24 Hour Emergency HAZMAT Response: (800) 229-5252
EPA National Response Center: (800) 424-8802

PRODUCT NAME: Surf 90
COMMON NAME: Nonionic Surfactant
CHEMICAL DESCRIPTION: Mixture of isometric mono alkyl phenols surfactants
PRODUCT SYNONYMS: Pesticide Adjuvant
CHEMICAL NAME/CLASS: Surfactants in Water
PRODUCT USE: Various Industrial and Agricultural Applications

Section 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: Clear Amber
ODOR: Surfactant

PHYSICAL FORM: Liquid
SIGNAL WORD: None

EMERGENCY OVERVIEW: May cause moderate irritation of skin, eyes, and respiratory tract.

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The primary routes of overexposure for this material are via inhalation and contact with skin and eyes. The following paragraphs describe the symptoms of overexposure to this material.

INHALATION: Product may be irritating to the nose, throat and respiratory tract.

CONTACT WITH SKIN: May cause symptoms of skin irritation such as reddening, and itching. May cause allergic contact dermatitis with repeated exposure.

CONTACT WITH EYES: Causes severe irritation, and reddening. May cause pain and swelling.

INGESTION: Large quantities may cause nausea, vomiting and cramps.

CHRONIC EXPOSURE: Not Available

ACUTE: The primary hazard associated with this product is the potential for mild to moderate irritation of skin, eyes, and other contaminated tissue

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 1 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS REGISTRY NUMBER</u>	<u>TYPICAL WT/VOLUME</u>
POE Nonylphenol	9016-45-9	*
Proprietary Formula		Balance

Section 4 – FIRST AID MEASURES

SKIN EXPOSURE: Contact can irritate the skin. Flush skin with running water and wash with soap. Remove contaminated clothing and shoes. If irritation persists, obtain medical attention.

EYE EXPOSURE: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, obtain medical attention.

INHALATION: Move victim to fresh air. Get medical attention for breathing difficulty.

INGESTION: Have victim rinse mouth with water. If conscious, give large quantity of water. Immediately seek medical attention. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

Section 5 – FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable. Product is non-flammable

AUTOIGNITION TEMPERATURE: Not Applicable.

FLAMMABLE LIMITS (in air by volume, %): Lower (LEL): Not applicable.
Upper (UEL): Not applicable.

SAFETY DATA SHEET

Surf-90

FIRE EXTINGUISHING MATERIALS:

Carbon Dioxide: YES
Dry Chemical: YES

Foam: YES

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SPECIAL FIRE-FIGHTING PROCEDURES: At high temperatures may release Carbon monoxide and Carbon dioxide. If water is evaporated to dryness residue may be combustible. Wear protective clothing and NIOSH-approved self-contained apparatus operated in positive pressure mode.

Section 6 – ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK: Stop the leak, if possible. Ventilate the space involved. Use appropriate personal protection equipment. Dike spill with inert material (sand, earth, etc.) to prevent waterway contamination. Collect run-off and transfer to drums or tanks for later disposal. Consult with regulatory specialists to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Deactivating Material: None known

Note – Clean-up material may be a RCRA Hazardous Waste on disposal
Spills are not currently subject to CERCLA reporting requirements.

Section 7 – HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Wear appropriate Personal Protection Equipment. As with all chemicals, avoid getting this product on you or in you. Wash hands after handling this product. Do not eat, drink, smoke or apply cosmetics while handling this product. All work practices should minimize the generation of spills, splashes and aerosols. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Avoid breathing dust or mists generated by this product. Use in a well-ventilated location. Containers of this product must be properly labeled. Empty containers may contain residual product. Therefore, empty containers should be handled with care. Store containers in a cool, dry location. Prevent spillage. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow practices indicated in Section 8 (Accidental Release Measures). Make certain that application equipment is locked and tagged-out safely if necessary. Collect all spills, residues, and rinsates, and dispose according to applicable U.S. Federal, State, or local procedures, or the applicable Canadian standards.

Section 8 – EXPOSURE CONTROL, PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use adequate local or general ventilation where necessary to maintain the concentrations well below the recommended occupational exposure limits. Ensure the eyewash stations and safety showers are proximal to the work area.

RESPIRATORY PROTECTION: Generally not required due to low volatility. If a mist or airborne particles will exceed the approved exposure limits, wear a full face-piece respirator approved by MSHA/NIOSH.

EYE PROTECTION: Wear face-shield and splash goggles, to prevent contact with this product. As a general rule, do not wear contact lenses when handling.

HAND PROTECTION: Wear appropriate work gloves.

BODY PROTECTION: Industrial coverall, safety boots. Where there is a danger of spilling or splashing an impervious apron should be worn,

SKIN PROTECTION: Wear protective gloves and clothes to minimize skin exposure.

OTHER: Emergency eye wash stations and deluge safety showers should be available in the work area. When handling bulk shipments a full rubber suit, boots, gloves, goggles, face shield and hardhat should be worn.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY: > 1.0

BULK DENSITY: 8.5 lbs/gallon

SOLUBILITY IN WATER: Emulsifiable

VAPOR PRESSURE: Not Available

ODOR THRESHOLD: No Data

SPECIFIC GRAVITY: 1.

EVAPORATION RATE (n-BuAc = 1): Not Applicable

FREEZING POINT or RANGE: < 24 F

BOILING POINT: 218 F

pH @ 15°C (59°F): 4.8 (as 10% solution in Water)

LOG WATER/OIL DISTRIBUTION COEFFICIENT: Not Available

APPEARANCE AND COLOR: Clear Amber Liquid

Section 10 – STABILITY AND REACTIVITY

STABILITY: Generally considered stable.

SAFETY DATA SHEET

Surf-90

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may generate carbon monoxide, phenols, and other toxic fumes.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong acids, bases, or oxidizers

CONDITIONS TO AVOID: Incompatibles

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

Ingredient	Test	Result	Route	Species
------------	------	--------	-------	---------

CARCINOGENICITY: Not Available

REPRODUCTIVE EFFECTS: Not Available

MUTAGENICITY: Not Available

TERATOGENICITY: Not Available

Section 12 – ECOLOGICAL INFORMATION

BOD and COD: Not available.

Environmental Fate: Not Available

Toxicity of Products: No data found

Section 13 – DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of a surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 – TRANSPORT INFORMATION

D.O.T. Shipping Description: Not D.O.T. Regulated.

Other Shipping Information: Adhesives, Adjuvant, Spreaders or Stickers, Liquid. NMFC Item 4612, LTL Class 60.

Section 15 – REGULATORY INFORMATION

CERCLA: Not Listed.

PROPOSITION 65: None.

UNITED STATES:

SARA TITLE III HAZARD CATEGORIES AND LISTS

Category		List	
Acute (Immediate) Health	Yes	Extremely Hazardous Substance	No
Chronic (Delayed) Health	No	(40CFR 355, SARA title III Section 302)	
Fire	No	CERCLA Hazardous Substance	No
Reactivity	No	(40CFR 302.4)	
Sudden Release of Pressure	No	Toxic Chemical	No
		(40CFR 372.65, SARA Title III Section 313)	

Reportable Quantity (RQ): None

TSCA Inventory Status: Yes (as components)

Right-To-Know:

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No

CANADIAN:

SAFETY DATA SHEET

Surf-90

INGREDIENTS LISTED ON DSL.....YES
WHMIS CLASSIFICATION.....N/A
WHMIS HEALTH EFFECTS INDEX.....N/A
WHMIS Ingredient Disclosure List:Yes

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.