

# Material Safety Data Sheet

Date last revised: 6 March 2006

AROSURF<sup>®</sup> MSF

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## I. General Information

<b>Chemical Name and Synonyms</b> POE Isosteryl Alcohol	<b>Trade Name &amp; Synonyms</b> Arosurf MSF
<b>Chemical Family</b> Nonionic Surfactant	<b>EPA Registration Number</b> 8329-74
<b>Proper DOT Shipping Name</b> Agricultural Insecticide, N.O.I., Non-Hazardous	<b>DOT Hazard Classification</b> Non Hazardous
<b>Registrant</b> Clarke Mosquito Control Products	<b>Registrant's Phone Number</b> (630) 894-2000
<b>Address</b> 159 North Garden Avenue Roselle, IL 60172	<b>Emergency Contacts</b> INFOTRAC (Transportation/Spill Emergency) 1-800-535-5053 Poison Control Center (Medical Emergency) 1-800-214-7753

## II. Ingredients

Components	CAS #	OSHA PEL-TWA	Percent
Poly(oxy-1,2-ethanediyl), $\alpha$ -isooctadecyl- $\omega$ -hydroxy	52292-17-8	Not established	>99
1,4-Dioxane	123-91-1	100 ppm 360 mg/m <sup>3</sup>	<0.001
Oxirane	75-21-8	1 ppm	<0.001

## III. Physical Data

<b>Boiling Point (°F):</b> >425 Degrees F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> Not Established
<b>Vapor Pressure (mm Hg.):</b> Not Established	<b>Vapor Density (Air = 1):</b> Heavier than air
<b>Solubility in Water:</b> Dispersible	<b>pH:</b> 5-8 At 10%, in isopropanol/water solvent
<b>Appearance:</b> Light Yellow to Clear Liquid	<b>Odor:</b> Mild
<b>Density:</b> 0.90 g/cm <sup>3</sup>	<b>Weight per Volume:</b> 7.51 Lb/Gal

## IV. Fire & Explosion Hazard Data

**Flash Point (Test Method):** > 212 Degrees F Method Penskey-Marten CC

**OSHA flammable class:** Combustible liquid, Class IIIB

**Extinguishing Media:** Foam, dry chemical, water fog

**Special Fire Fighting Procedures:** Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid. Contain run-off, if possible. Wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**Products in case of fire:** Carbon monoxide, carbon dioxide

## V. Health Hazard Data

**Toxicity:** Oral LD50: > 20g/kg  
Dermal LD50: > 2g/kg  
Inhalation LC50: > 29 mg/l

This material is non-irritating to the skin. This material may be mildly irritating to the eyes.

**Immediate concerns:** Keep out of reach of children. May cause slight transient eye irritation. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling.

**Eyes:** May cause slight irritation

**Skin:** No harmful effects have been reported upon contact with skin.

**Ingestion:** No harmful effects have been reported upon ingestion.

**Inhalation:** No harmful effects have been reported upon inhalation.

**Primary routes of entry:** None **Target organs:** None

**Ingestion:** No harmful effects have been reported upon ingestion

**Carcinogenicity:** This product may contain 1,4 Dioxane (CASN 123-91-1) and Ethylene Oxide (CASN 75-21-8) which is known as a carcinogen under California Proposition 65.

## VI. EMERGENCY FIRST AID

**Eye:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**Skin Contact:** Remove contaminated clothing and wash affected areas of skin with soap and water.

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**Inhalation:** Not expected to present an inhalation exposure at normal conditions. Remove individual to fresh air and consult a physician.

**Ingestion:** Drink 1-2 glasses of water and call a physician or Poison Control Center immediately. Do not give anything by mouth to an unconscious person.

## VII. Reactivity Data

Stability:	No.
Incompatibility	Avoid contact with strong oxidizing agents.
Hazardous Polymerization	Yes

## VIII. Environmental Protection Procedures

**Spill Response: Small spills:** Wear appropriate PPE. Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media. **Large spills:** Persons not wearing PPE should be excluded from area of spill. Stop spill at source, dike area of spill to prevent spreading, pump liquid into salvage drums, remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

**Storage:** Store sealed and upright in its original labeled container. Store in a cool, dry place with adequate ventilation. Do not store near heat or open flame. Emptied containers may retain product residues.

**Waste Disposal:** Incinerate in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted facilities is recommended. For guidance, contact your State Water Board or Regional Office of the EPA.

**Other Precautions:** This product may contain trace amounts of ethylene oxide and 1,4 Dioxane which could accumulate in headspace of drums and bulk containers. If the product is handled as recommended in this MSDS, the trace amounts of ethylene oxide and 1,4 Dioxane are not expected to result in any acute or chronic hazards.

## IX. Special Protection Information

**Eye Protection:** Chemical splash proof goggles or face shield

**Hand Protection:** Wear protective chemically resistant gloves such as Neoprene or Buna-N

**Respiratory Protection:** If TLV exceeds recommended limits use a NIOSH approved respirator.

**Ventilation:** Sufficient mechanical ventilation must be used to maintain exposure below established exposure limits and to avoid effects of overexposure.

IMPORTANT. Read and observe all precautions and instructions on the label. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

## X. Additional Regulatory Information

CERCLA CAS 75-21-8 Ethylene Oxide: 10 lb RQ

### SARA Title III Data

#### 1 311 and 312 Hazard Categories

Immediate Health Hazard	N	Reactive Hazard	N
Delayed Health Hazard	N	Sudden Pressure	N
Fire Hazard	N	Release Hazard	N

### Section 313:

This product contains a trace of 75-21-8 (Ethylene Oxide) and a trace of 123-91-1 (1,4-Dioxane).

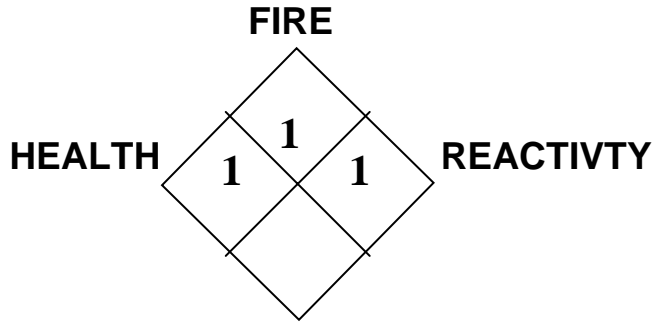
Component	CAS Number	Concentration
1,4-Dioxane	123-91-1	< 0.001 %
Ethylene Oxide	75-21-8	< 0.001 %

**TSCA Inventory:** All intentional ingredients are listed in the TSCA inventory or comply with TSCA Polymer Exemption criteria per 40 CFR 723.

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**NFPA Code Key**  
4 = Severe  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

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