



MATERIAL SAFETY DATA SHEET

N/A = Not Applicable

(Prepared According to 29 CFR 1910.1200)

Effective Date 8/2/99

Section 1 - PRODUCT IDENTIFICATION

Product Name: ...Muscle
 Chemical Family: N/A
 Generic Name: ...Ready-To-Use Foaming Degreaser
 Formula:N/A
 Suppliers Name: . .NORTHLAND CHEMICAL CORP.
 Phone:952-469-1155
 Suppliers Address: 11380 250th Street East Lakeville, MN 55044
 Emergency: ...800-255-3924

NPCA Hazardous Materials Identification

Health	2
Flammability	0
Reactivity	0
Maximum Personal Protection	B

Section 2 - INGREDIENTS

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV C	CARCINOGEN
Water	7732-18-5	to 100	N/A	N/A	N/A	No
Xanthan Gum	11132-66-2	0 to 5				No
Tetrasodium Salt of Ethylenediaminetetraacetic Acid	64-02-8	0 to 5	N/E	N/E	N/E	No
Glycol Ether	112-34-5	0 to 5				No
Propylene Glycol	57-55-6	0 to 5	N/E	N/E	N/E	No
Amphoteric Surfactant	68298-20-4	0 to 5				No
Nonionic Surfactant	9016-45-9	0 to 5				No
Citrus Terpenes	5989-27-5	0 to 5	N/E	N/E	N/E	No
Triethanolamine	102-71-6	0 to 5				No
Sodium Hydroxide	1310-73-2	0 to 5	2 mg/m3	N/A	2 mg/m3	No
Sodium Xylene Sulfonate	1300-72-7	0 to 5	N/E	N/E	N/E	No
Dye	N/A	0 to 5	N/E	N/E	N/E	No

This product contains the following toxic chemicals subject of the reporting requirements of section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40 CFR 372.

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT
112-34-5	Glycol Ether	3.00

Section 3 - PHYSICAL DATA

Boiling Range: 212°F initial
 Vapor Pressure: 20mm Hg @ 68°F
 % Volatile: 90+
 Solubility in Water: 100%
 Physical Description: Thick orange liquid with pleasant odor.

Specific Gravity: 1.0
 Vapor Density: (Air=1):>1
 pH: 12.0-13.0
 Evaporation Rate: (Water=1):<1

Section 4 - FIRE AND EXPLOSION DATA

Concentrate Flash Point (Method): N/A
 Propellant Flash Point (Method): N/A
 Flash Point (Method): None to boiling. (TCC)
 Extinguishing Media: N/A
 Special Fire Fighting Procedures: N/A
 Unusual Fire and Explosion Hazards: N/A

Explosive Limits
 Upper: N/A
 Lower: N/A

Section 5 - REACTIVITY DATA

Stability: Stable
 Incompatibility (Materials to Avoid): Strong acids
 Hazardous Decomposition Products: Alkaline vapors in a fire.

Hazardous Polymerization: Will not occur.

Section 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:
 Keep out of reach of children.
 Keep container closed during storage. For institutional and commercial use.

Section 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
 Primary Route of Entry:
 Skin:Skin irritant. May cause moderate reddening and swelling. Prolonged or repeated contact may cause dermatitis.
 Eyes:Eye irritant. May cause redness and swelling of the conjunctiva.
 Inhalation:Direct inhalation of mist may be slightly irritating to the nose and throat.
 Ingestion:May be irritating to the mouth, throat, and gastrointestinal system. Vomiting and diarrhea expected with large doses.

First Aid Procedures:
 Skin:Remove contaminated clothing. Flush with large quantities of water. Seek medical attention if irritation persists.
 Eyes:Flush eyes with large quantities of water. Seek medical attention if irritation persists.
 Inhalation:Get to fresh air.
 Ingestion:Do not induce vomiting. Drink a large quantity of water. Seek medical attention immediately.

Section 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use with adequate ventilation.
 Protective Gloves: Waterproof recommended.
 Other Protective Equipment: N/A

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
 Eye Protection: Safety glasses recommended.

Section 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
 Mop up or otherwise absorb and hold for disposal.

Waste Disposal Method:
 Any method in accordance with applicable laws.