

MATERIAL SAFETY DATA SHEET

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SECTION I – GENERAL INFORMATION

TRADE NAME	X-99
CHEMICAL NAME	Non-ionic surfactant
CHEMICAL FAMILY	Non-ionic Biodegradable Surfactant
EPA REG. NO.	N/A
SIGNAL WORD	CAUTION

SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Alcohol ethoxylate,	68002-97-1,	80.0	N.E.	NH
alkylphenol ethoxylate	9016-45-9			
Constituents ineffective as spray adjuvants	N/A	20.0	N/A	NH

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	212°F	<u>Specific Gravity</u>	1.06 gms/cc
<u>Vapor Pressure</u>	N.K.	<u>% Volatiles</u>	Approx. 5-10%
<u>Vapor Density</u>	N.K.	<u>Solubility in Water</u>	Complete
<u>pH</u>	5-7	<u>Appearance/Odor</u>	Golden to amber liquid, alcohol odor.

SECTION IV – FIRE & EXPLOSION DATA

Flash Point	175-180°F
Extinguishing Media	Alcohol foam, Carbon Dioxide, water spray
Fire Fighting Procedures	Cool exposed equipment with water spray. Wear an approved self-contained breathing apparatus.

SECTION V – REACTIVITY DATA

Stability	Stable
Conditions to Avoid	Extreme temperatures
Incompatibility	Store away from oxidizers
Hazardous Decomposition Products	Carbon Monoxide and Asphyxiants
Hazardous Polymerization	Will not occur.

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity	N/A
Toxicity Data	Oral LD50 (Rat) = >1,300 mg/kg Dermal LD50 (Rabbit) = 2,000 mg/kg
TLV	Not established
N.F.P.A.	Health: 2, Fire: 1, Reactivity: 0 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure	Vapor can irritate nose and throat. Also eye and skin irritation.

SECTION VII – EMERGENCY PROCEDURES

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill
Dike and absorb spill with inert oil absorbent material. Transfer to suitable container for disposal. Keep out of reach of open bodies of water and/or sewers. Assure protective equipment is worn.
Waste Disposal Method
Dispose of in accordance with Local, State, and Federal Regulations.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	None normally required
Ventilation	General recommended
Protective Gloves	Rubber impervious
Eye Protection	Chemgoggles
Other	Coveralls, long-sleeve shirt, rubber boots

SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

D.O.T. Description	Non-Regulated
Freight Description	Agricultural Spray Adjuvant, Liquid, N.O.S.
Reportable Quantity	N/A
E.R.G.	171

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