



# MATERIAL SAFETY DATA SHEET

## FORMULA X STRIPPER

LAST REVISION DATE: 3/4/93

MANUFACTURER:  
Pioneer/Eclipse Corp.  
Sparta, NC 28675  
919-372-8080

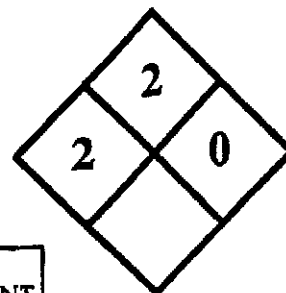
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure, or Accident  
CALL CHEMTREC - Day or Night \*800-424-9300 Toll Free in the Continental U.S.  
\*Add long-distance access number if required. 483-7616 in DISTRICT OF COLUMBIA  
For calls originating outside the U.S. : 202-483-7616 Washington, DC Collect

### SECTION I: GENERAL INFORMATION

PRODUCT NAME: Formula X Stripper  
PRODUCT CLASS: Aqueous based stripper  
U.S. D.O.T. HAZARD CLASS: Non-regulated  
PRECAUTIONS: Combustible. Do not get in eyes, on skin, or clothing. Keep container sealed when not in use. Keep out of the reach of children.  
FLAMMABILITY: 2  
REACTIVITY: 0  
HEALTH: 2

PRODUCT #: 503

CAS#: NE



NFPA HAZARD RATINGS  
4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

### SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	%	OSHA PEL	ACGIH TLV	LD 50 SPECIES & ROUTE
*Ethanol, 2-Butoxy	111-76-2	20-25	25 ppm(skin) (TWA)	25 ppm(skin) (TWA)	0.5 g/kg rat, oral
Ethanol, 2-Amino	141-43-5	5-10	8 mg/m <sup>3</sup> (TWA) 3 ppm (TWA) 6 ppm (STEL)	3 ppm (TWA) 6 ppm (STEL)	3 g/kg rat, oral

\*This chemical is subject to the reporting requirements of Section 313 of SARA Title III.  
NE = Not Established, NL = Not Listed, NA = Not Applicable, (C) = Identified as a Carcinogen by OSHA, IARC, or NTP.

### SECTION III: PHYSICAL/CHEMICAL DATA

PHYSICAL STATE: Liquid  
BOILING POINT: 100°C/212°F  
FREEZING POINT: 0°C/32°F  
% VOLATILE BY WEIGHT: 94.4 ± 0.5%  
APPEARANCE: Clear yellow liquid  
SOLUBILITY IN WATER: Miscible

pH: 12.00 ± 0.25  
EVAPORATION RATE: Approximately 1 (Water = 1)  
VAPOR DENSITY: NE  
VAPOR PRESSURE (mm Hg): NE  
WEIGHT PER GALLON: 8.30 lbs.

### SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Greater than 160°F, ASTM method D56  
EXPLOSIVE LIMITS:

LOWER: NE UPPER: NE

EXTINGUISHING MEDIA: Water spray, CO<sub>2</sub>, dry chemical, alcohol-type or universal type foams.  
SPECIAL FIRE FIGHTING PROCEDURES: Do not spray a solid stream of water or foam directly into hot liquid. This may cause frothing. Firefighters should wear NIOSH approved breathing apparatus.  
HAZARDOUS COMBUSTIBLE PRODUCTS: None  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Materials can splatter above 100°C/212°F.

### SECTION V: REACTIVITY DATA

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur.  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids and strong oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: May produce carbon monoxide, carbon dioxide, and nitrogen oxides during decomposition.  
REACTIVITY CONDITIONS: None

continued...

## SECTION VI: HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES

**EYES:** May cause severe burns or possible corneal damage. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician immediately.

**SKIN:** Irritation, reddening, or possible damage upon repeated or prolonged contact. In case of contact, flush area with water. Seek medical attention if irritation persists.

**INHALATION:** Vapor or mist can cause headache, nausea, and irritation of the eyes, nose, throat, and lungs. For overexposure, move subject to fresh air. Seek medical attention if symptoms persist.

**INGESTION:** May cause nausea, abdominal discomfort, vomiting, diarrhea. If ingested, give two glasses of water or milk and do not induce vomiting. Remove via endotracheal intervention. Seek medical attention immediately.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Main hazard is due to products severe irritant properties. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

**CARCINOGEN:** Non-Carcinogenic  
**REPRODUCTIVE EFFECTS:** NE  
**TERATOGENICITY:** NE  
**MUTAGENICITY:** NE  
**THRESHOLD LIMIT VALUE:** See Section II.

## SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

**SMALL SPILLS:** Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material. Neutralize residue with vinegar, mild acid, or large amounts of water.

**LARGE SPILLS:** Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (E.G. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

**WASTE DISPOSAL:** Landfill or incinerate the contaminated solids, and contaminated diking material according to local, state, and federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility for disposal.

## SECTION VIII: SPECIAL PROTECTION

**EYE PROTECTION:** Chemical splash goggles (ANSI Z87.1 or approved equivalent).

**RESPIRATORY PROTECTION:** None required when permissible airborne concentrations are not exceeded. In emergency, use approved positive pressure self-contained breathing device.

**VENTILATION:** Mechanical local exhaust ventilation at point of contamination release.

**OTHER PROTECTIVE EQUIPMENT:** As required by employer code. Rubber boots and chemical resistant gloves recommended.

## SECTION IX: SPECIAL PRECAUTIONS

**HANDLING AND STORAGE:** Storage temperature (MAX. 60°C/140°F) (MIN. 1°C/34°F).

**OTHER PRECAUTIONS:** Keep from freezing.

## SECTION X: ADDITIONAL INFORMATION

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PREPARED BY: WARREN W. WEAVER  
TITLE: DIRECTOR, CHEMICAL DIVISION  
DATE: 3/4/93

This MSDS has been provided you in accordance with the OSHA HAZARD COMMUNICATION STANDARD (29CFR 1910.1200)

\*\*\*IMPORTANT SAFETY INFORMATION - DO NOT DISCARD\*\*\*  
\*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\*