PRODUCT NUMBER: FS4100

MANUFACTURER:
PIONEER/ECLIPSE CORP.
SPARTA, N.C. 28675
919-372-8080

EMERGENCY INFORMATION
MEDICAL: 1-800-334-2246

SECTION I: GENERAL INFORMATION

PRODUCT NAME: FIRST STEP SEALER
PRODUCT CLASS: AQUEOUS ACRYLIC EMULSION
HAZARD CLASSIFICATION: NONREGULATED
PRECAUTIONS: POSSIBLE SKIN AND EYE IRRITANT. KEEP CONTAINER SEALED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.

SECTION II: HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT (CAS #)</th>
<th>%</th>
<th>OSHA PEL (PPM)</th>
<th>ACGIH TLV (PPM)</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIA 7664-41-7</td>
<td>.1-5</td>
<td>50</td>
<td>25</td>
<td>35 (STEL)</td>
</tr>
<tr>
<td>2-(2-METHOXYETHOXY) ETHANOL 111-77-3</td>
<td>.5-1</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

NE = NOT ESTABLISHED.
NL = NOT LISTED.
NA = NOT APPLICABLE.
(C) = IDENTIFIED AS A CARCINOGEN BY OSHA, IARC, OR NTP.

SECTION III: PHYSICAL/CHEMICAL DATA

BOILING POINT: 100C/212F
% VOLATILE BY WEIGHT: 81.2 +/- 0.5
APPEARANCE AND ODOR: MILKY WHITE EMULSION; MILD ACRYLIC ODOR
SOLUBILITY IN WATER: DILUTABLE
pH conc: 8.78 +/- 0.25
EVAPORATION RATE: LESS THAN 1, WATER
VAPOR DENSITY: LESS THAN 1, WATER
VAPOR PRESSURE (MM HG): NE
WEIGHT PER GALLON: 8.52 LBS

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): NON-COMBUSTIBLE
EXPLOSIVE LIMITS: UPPER: NA
LOWER: NA
EXTINGUISHING MEDIA: NONE
SPECIAL FIRE FIGHTING PROCEDURES: MATERIAL CAN SPLATTER ABOVE 100C/212F. POLYMER FILM CAN BURN.

SECTION V: REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLMERIZATION: WILL NOT OCCUR
INCOMPATABILITY (MATERIALS TO AVOID): STRONG ACIDS AND BASES
HAZARDOUS DECOMPOSITION PRODUCTS: NA
SECTION VI: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES:

EYES: SLIGHTLY IRRITATING TO EYES. FOR EYE CONTACT FLUSH WITH A LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES. SEE A PHYSICIAN IF IRRITATION PERSISTS.

INHALATION: IRRITATING TO SKIN UPON REPEATED OR PROLONGED CONTACT. FOR SKIN CONTACT WASH AFFECTED AREAS WITH SOAP AND WATER.

INHALATION: VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA, AND IRRITATION OF THE EYES, NOSE, THROAT, AND LUNGS. FOR OVEREXPOSURE, MOVE SUBJECT TO FRESH AIR.

INGESTION: IRRITATION TO MOUTH, ESOPHAGUS, AND STOMACH. IF INGESTED, INDUCE VOMITING. SEEK MEDICAL ATTENTION.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: NONE REPORTED.

CARCINOGEN: NON-CARCINOGENIC.

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.

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: COAGULATE THE EMULSION BY THE STEPWISE ADDITION OF FERRIC CHLORIDE AND LIME. REMOVE THE CLEAR SUPERNATANT LIQUID AND FLUSH TO A CHEMICAL SEWER. LANDFILL OR INCINERATE THE SOLIDS AND THE CONTAMINATED DIKING MATERIAL ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION VIII: PROTECTIVE MEASURES

EYE PROTECTION: CHEMICAL SPLASH GOGGLES (ANSI Z87.1 OR APPROVED EQUIVALENT)

PROTECTIVE GLOVES: IMPERVIOUS

RESPIRATORY PROTECTION: NONE REQUIRED WHEN PERMISSIBLE AIRBORNE CONCENTRATIONS ARE NOT EXCEEDED.

VENTILATION: MECHANICAL LOCAL EXHAUST VENTILATION AT POINT OF CONTAMINANT RELEASE.

OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: STORAGE TEMPERATURE (MAX 60°C/140°F) (MIN 1°C/34°F)

OTHER PRECAUTIONS: KEEP FROM FREEZING. PRODUCT MAY COAGULATE.

NEITHER THIS DATA SHEET NOR ANY STATEMENT CONTAINED HEREIN GRANTS OR EXTENDS ANY LICENSE, EXPRESS OR IMPLIED, IN CONNECTION WITH PATENTS ISSUED OR PENDING WHICH MAY BE THE PROPERTY OF THE MANUFACTURER OR OTHERS. THE INFORMATION IN THIS DATA SHEET HAS BEEN ASSEMBLED BY THE MANUFACTURER BASED ON ITS OWN STUDIES AND ON THE WORK OF OTHERS. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR ADEQUACY OF THE INFORMATION CONTAINED HEREIN, THE MANUFACTURER SHALL NOT BE LIABLE (REGARDLESS OF FAULT) TO THE VENDEE, THE VENDEE'S EMPLOYEES, OR ANYONE FOR ANY DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE ACCURACY, COMPLETENESS, ADEQUACY, OR FURNISHING OF SUCH INFORMATION.

PREPARED BY: J.E. HARLESS
TITLE: DIRECTOR, CHEMICAL DIVISION
DATE: 12/01/87

THIS MSDS HAS BEEN PROVIDED YOU IN ACCORDANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

** IMPORTANT SAFETY INFORMATION - DO NOT DISCARD **

** PLEASE ROUTE TO COMPANY SAFETY OFFICER **