

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

## 1. PRODUCT IDENTIFICATION

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| <b>TRADE NAME (AS LABELED):</b>      | <b>Mender X2 Summer Part A</b>                       |
| <b>SYNONYMS:</b>                     | None known                                           |
| <b>CAS#:</b>                         | Mixture                                              |
| <b>PRODUCT USE:</b>                  | This product is used for floor coating               |
| <b>CHEMICAL SHIPPING NAME/CLASS:</b> | Non-Regulated Material                               |
| <b>U.N. NUMBER:</b>                  | None                                                 |
| <b>MANUFACTURER'S NAME:</b>          | Bayvex Technologies                                  |
| <b>ADDRESS:</b>                      | 8231 214 <sup>th</sup> Street W, Lakeville, MN 55044 |
| <b>BUSINESS PHONE #:</b>             | 1-952-491-0024                                       |
| <b>EMERGENCY PHONE #:</b>            | 1-952-491-0024                                       |
| <b>DISTRIBUTOR NAME:</b>             | Penntek Industrial Coatings                          |
| <b>ADDRESS:</b>                      | 7850 Lakeville Blvd., Lakeville, MN 55044            |
| <b>BUSINESS PHONE #:</b>             | 1-844-290-9364                                       |
| <b>EMERGENCY PHONE #:</b>            | 1-844-290-9364                                       |
| <b>DATE OF CURRENT REVISION:</b>     | April 2, 2025                                        |
| <b>DATE OF LAST REVISION:</b>        | June 26, 2023                                        |

## 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a black liquid with a mild to no odor.

**Health Hazards:** Prolonged or repeated exposure may cause irritation to skin. May cause irritation to eyes upon contact with redness and tearing. Ingestion of this product may cause gastrointestinal irritation.

**Flammability Hazards:** This product is a Non-Flammable liquid with a flash point of >200°F (>93.3°C)

**Reactivity Hazards:** None known

**Environmental Hazards:** The Environmental effects of this product have not been investigated. Release of this product may have adverse long term effects in the aquatic environment.

US DOT SYMBOLS

CANADA (WHMIS) SYMBOLS

EUROPEAN and (GHS) Hazard Symbols

**Non-Regulated Material**

Complies with WHMIS 2015



Signal Word: **Warning!**

### **CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1910.1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:**

This product does meet the definition of a hazardous substance or preparation as defined by OSHA in 29 CFR 1910.1200 or the European Union Council Directives 1272/2008/EC and subsequent Directives.

#### **EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:**

**EC# 229-934-9 is classified in EINECS**

**EC# 203-041-4 is classified in EINECS**

**Proprietary Ingredient is classified in EINECS**

**EC# 246-770-3 is not classified in EINECS**

**EC# 267-055-2 is not classified in EINECS**

**EC# 215-283-8 is not classified in EINECS**

**Proprietary Ingredient is not listed in EINECS**

Substances not listed either individually or in group entries must be self classified.

#### **Component(s) Contributing to Classification(s)**

All Ingredients

#### **GHS Hazard Classification(s):**

Reproductive Toxicity Category 2

Skin Irritant Category 2

Eye Irritant Category 2

#### **Hazard Statement(s):**

H315: Causes skin irritation

H319: Causes serious eye irritation

H361: Suspected of damaging fertility or the unborn child

#### **Precautionary Statement(s):**

P202: Do not handle until all safety precautions have been read and understood.

P233: Keep container tightly closed.

P264: Wash thoroughly after handling

**Response Statement(s):**

P302+P352: IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.

P280: Wear protective gloves/eye protection/face protection.

**Storage Statement(s):**

P403+P235: Store in a well-ventilated place. Keep cool.  
 P404: Store in a closed container

**Disposal Statement(s):**

P501: Dispose of contents/container in accordance with local/national/international regulations.

**Other Known Hazard(s):**

This mixture does not meet the criteria for PBT or vPvB in accordance with Annex VI.

No other hazards known

**HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with skin or eyes, inhalation of vapors and ingestion. The symptoms of overexposure are described below.

**ACUTE:**

**INHALATION:** Not expected to cause adverse health effects when used as intended. Inhalation of vapors/mist/spray may cause respiratory irritation.

**CONTACT WITH SKIN:** Not expected to cause adverse health effects when used as intended. Prolonged and repeated contact may cause irritation to skin.

**EYE CONTACT:** Direct eye contact can cause irritation with redness, tearing and blurred vision.

**INGESTION:** Under normal conditions of intended use, this material is not expected to be an ingestion hazard. Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting.

**CHRONIC:** None known

**TARGET ORGANS:** **Acute:** Skin, Respiratory System and Eyes

**Chronic:** None known

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Hazardous Ingredients:                                                                                                                    | WT%      | CAS#         | EINECS #     | Hazard Classification                               |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|--------------|-----------------------------------------------------|
| 2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate                                                                                             | 25 – 35% | 6846-50-0    | 229-934-9    | H361: Reproductive Toxicity Cat 2                   |
| Tetrahydroxypropylethylenediamine                                                                                                         | 25 – 35% | 102-60-3     | 203-041-4    | H315: Skin Irritant Cat 2, H319: Eye irritant Cat 2 |
| Proprietary Ingredient                                                                                                                    | 10 – 20% | Trade Secret | Trade Secret | H315: Skin Irritant Cat 2, H319: Eye irritant Cat 2 |
| Dipropylene Glycol                                                                                                                        | 10 – 20% | 25265-71-8   | 246-770-3    | Not Classified                                      |
| Methyl Soyate Ester                                                                                                                       | 1 – 10%  | 67784-80-9   | 267-055-2    | Not Classified                                      |
| Zeolite Powder                                                                                                                            | 1 – 10%  | 1318-02-1    | 215-283-8    | Not Classified                                      |
| Black Dye                                                                                                                                 | <2%      | Trade Secret | Trade Secret | Not Classified                                      |
| Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers). |          |              |              |                                                     |

NOTE: This product has been classified in accordance with the hazard criteria of 29CFR1910.1200 and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

### 4. FIRST-AID MEASURES

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water. Remove contact lenses if easy to do and continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin or respiratory conditions may be aggravated.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and eliminate overexposure.

## 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** Non-Flammable liquid with flash point >200°F (>93.3°C)

**AUTOIGNITION TEMPERATURE:** Not Available

**FLAMMABLE LIMITS (in air by volume, %):** Lower NA Upper NA

**FIRE EXTINGUISHING MATERIALS:** Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

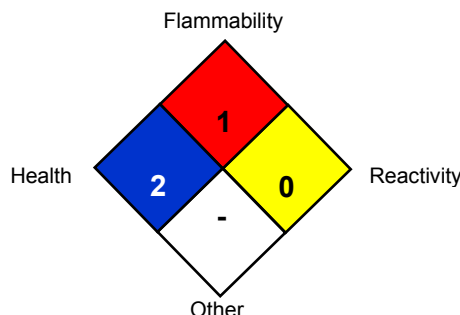
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

**SPECIAL FIRE-FIGHTING PROCEDURES:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

| HAZARDOUS MATERIAL IDENTIFICATION SYSTEM                                            |             |                                                                                       |            |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|------------|
| HEALTH HAZARD (BLUE)                                                                |             |                                                                                       | 2          |
| FLAMMABILITY HAZARD (RED)                                                           |             |                                                                                       | 1          |
| PHYSICAL HAZARD (YELLOW)                                                            |             |                                                                                       | 0          |
| PROTECTIVE EQUIPMENT                                                                |             |                                                                                       |            |
| EYES                                                                                | RESPIRATORY | HANDS                                                                                 | BODY       |
|  | See Sect 8  |  | See Sect 8 |
| For Routine Industrial Use and Handling Applications                                |             |                                                                                       |            |

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Stop the flow of material, if this can be done safely. Contain discharged material. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Place in a proper container for disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations)

## 7. HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Ensure adequate ventilation. Wash thoroughly after handling this product. Use good hygiene practices.

**STORAGE AND HANDLING PRACTICES:** Store in original container. Keep container closed when not in use. Store in a cool, dry location.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### EXPOSURE LIMITS:

| Chemical Name                                 | CAS#         | ACGIH TLV  | OSHA TWA   |
|-----------------------------------------------|--------------|------------|------------|
| 2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate | 6846-50-0    | Not Listed | Not Listed |
| Tetrahydroxypropylethylenediamine             | 102-60-3     | Not Listed | Not Listed |
| Proprietary Ingredient                        | Trade Secret | Not Listed | Not Listed |
| Dipropylene Glycol                            | 25265-71-8   | Not Listed | Not Listed |

|                     |              |            |            |
|---------------------|--------------|------------|------------|
| Methyl Soyate Ester | 67784-80-9   | Not Listed | Not Listed |
| Zeolite Powder      | 1318-02-1    | Not Listed | Not Listed |
| Black Dye           | Trade Secret | Not Listed | Not Listed |

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Always use in adequately ventilated area. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or goggles are recommended to avoid eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**SKIN PROTECTION:** Wear impervious gloves for prolonged or repeated exposure as appropriate to task avoid when using this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## 9. PHYSICAL and CHEMICAL PROPERTIES

**APPEARANCE (Physical State) and COLOR:** This product is a black liquid with a mild to no odor.

**ODOR:** None

**ODOR THRESHOLD:** Not Available

**pH:** Not Available

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:** Not Available

**FLASH POINT:** >93.3°C / >200°F

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**SPECIFIC GRAVITY:** Not Available

**SOLUBILITY IN WATER:** Insoluble

**WEIGHT PER GALLON:** 8.52

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** 110 Centipoise

## 10. STABILITY and REACTIVITY

**STABILITY:** Stable under conditions of normal storage and use.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products include oxides of carbon and possible harmful vapors.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong oxidizing materials, strong acids and excessive heat.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur.

**CONDITIONS TO AVOID:** Incompatible materials and ignition sources.

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY DATA:

| Chemical Name                                 | CAS#         | Oral LD50         | Dermal LD50       | Inhalation LC50   |
|-----------------------------------------------|--------------|-------------------|-------------------|-------------------|
| 2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate | 6846-50-0    | No Data Available | No Data Available | No Data Available |
| Tetrahydroxypropylethylenediamine             | 102-60-3     | >500 mg/kg        | No Data Available | No Data Available |
| Proprietary Ingredient                        | Trade Secret | No Data Available | No Data Available | No Data Available |

|                     |              |                   |                   |                   |
|---------------------|--------------|-------------------|-------------------|-------------------|
| Dipropylene Glycol  | 25265-71-8   | 14850 mg/kg       | >20 mL/kg         | No Data Available |
| Methyl Soyate Ester | 67784-80-9   | No Data Available | No Data Available | No Data Available |
| Zeolite Powder      | 1318-02-1    | No Data Available | No Data Available | No Data Available |
| Black Dye           | Trade Secret | No Data Available | No Data Available | No Data Available |

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| <b>Acute Toxicity</b>                    | <b>Based on available data, the classification criteria are not met</b> |
| <b>Skin Corrosion / Irritation</b>       | <b>Skin Irritant Category 2</b>                                         |
| <b>Serious Eye Damage / Irritation</b>   | <b>Eye Irritant Category 2</b>                                          |
| <b>Respiratory or Skin Sensitization</b> | <b>Based on available data, the classification criteria are not met</b> |
| <b>Germ Cell Mutagenicity</b>            | <b>Based on available data, the classification criteria are not met</b> |
| <b>Carcinogenicity</b>                   | <b>Based on available data, the classification criteria are not met</b> |
| <b>Reproductive Toxicity</b>             | <b>Reproductive Toxicity Category 2</b>                                 |
| <b>STOT – Single Exposure</b>            | <b>Based on available data, the classification criteria are not met</b> |
| <b>STOT – Repeated Exposure</b>          | <b>Based on available data, the classification criteria are not met</b> |
| <b>Aspiration Hazard</b>                 | <b>Based on available data, the classification criteria are not met</b> |

**SUSPECTED CANCER AGENT:** None of the ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, or suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** Exposure to this product may cause skin and eye irritation.

**SENSITIZATION TO THE PRODUCT:** This product is not expected to cause skin sensitization.

**REPRODUCTIVE TOXICITY INFORMATION:** This product contains an ingredient reported to affect reproductivity.

## 12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

**ENVIRONMENTAL STABILITY:** No specific data available on this product.

**CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE:** This product may cause harm to plants, animals or aquatic life.

**WATER ENDANGERMENT CLASS:** Water endangering in accordance with EU Guideline 91/155-EWG – Not Determined.

**SPECIFIC AVAILABLE COMPONENT INFORMATION:** No additional data available at this time.

## 13. DISPOSAL CONSIDERATIONS

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**EU Waste Code:** Not determined

## 14. TRANSPORTATION INFORMATION

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**PROPER SHIPPING NAME:** Non-Regulated material

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** None

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** None

**RQ QUANTITY:** None

**MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is not considered as dangerous goods.

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is not considered as dangerous goods.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):** This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

### UNITED STATES REGULATIONS:

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 Lists.

### CANADIAN REGULATIONS:

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

### **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Complies with WHMIS 2015

### EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 1272/2008/EC and subsequent Directives.

See Section 2 for Details

**AUSTRALIAN INFORMATION FOR PRODUCT:** The components of this product are listed on the International Chemical Inventory list.

### **JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

**POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

## 16. OTHER INFORMATION

### ABBREVIATIONS AND ACRONYMS:

EPA: United States Environmental Protection Agency

ARD: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

**PREPARED BY:** Paul Eigbrett – (**GHS MSDS Compliance PLUS**)

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Bayvex Technologies assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Bayvex Technologies assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET**