

## CROSSFIELD PRODUCTS CORPORATION

www.crossfieldproducts.com

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## SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

|                                      |   |
|--------------------------------------|---|
| <u>TRADE NAME (AS LABELED):</u>      | <b>Electro-flor Conductive, Part A</b>                            |
| <u>CHEMICAL NAME/CLASS:</u>          | Epoxy Emulsion  |
| <u>PRODUCT USE:</u>                  | Specialty Resin ESD Floors  |
| <u>SUPPLIER/MANUFACTURER'S NAME:</u> | Crossfield Products Corp.   |
| <u>ADDRESS: (West Coast):</u>        | 3000 E. Harcourt St.<br>Rancho Dominguez, CA 90221 (Headquarters) |
| <u>ADDRESS: (East Coast):</u>        | 140 Valley Rd.<br>Roselle Park, NJ 07204                          |
| <u>EMERGENCY PHONE:</u>              | <b>CHEMTREC:</b> 800-424-9300                                     |
| <u>DATE OF PREPARATION:</u>          | March 23, 2021  |
| <u>REVISION DATE:</u>                | First Issue   |

## 2. HAZARD(S) IDENTIFICATION



GHS Classification:  
 Skin sensitizer – category 1

**Signal Word:** (Warning)

**Hazard Statements:**

H317: May cause an allergic skin reaction

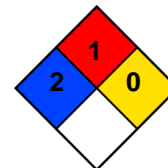
**Precautionary Statements:**

P201: Obtain special instruction before use.  
 P202: Do not handle until all safety precautions have been read and understood  
 P261: Avoid breathing dust/fume/gas/vapors/spray  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention  
 P363: Wash contaminated clothing before reuse  
 P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**HMIS-RATINGS (SCALE 0 – 4)**

|                     |   |
|---------------------|---|
| <b>HEALTH</b>       | 2 |
| <b>FLAMMABILITY</b> | 1 |
| <b>REACTIVITY</b>   | 0 |

Health = 2  
 Fire = 1  
 Reactivity = 0

**NFPA RATING**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| CHEMICAL NAME   | CAS #      | %       | EXPOSURE LIMITS IN AIR  |                   |                   |                   |                   |                   |
|---|------------|---------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
|   |            |         | ACGIH   |                   | OSHA              |                   | IDLH              | OTHER             |
|   |            |         | TLV   | STEL              | PEL               | STEL              |                   |                   |
|   |            | w/w     | mg/m <sup>3</sup>   | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer                                       | 25085-99-8 | 50 - 60 | NE  | NE                | NE                | NE                | NE                | NE                |
| Water   | 7732-18-5  | 40 - 50 | NE  | NE                | NE                | NE                | NE                | ND                |
| Water and other ingredients. The other ingredients are each present in less than 1 percent concentration in this product. |            | Balance | The components present in the balance of this product do not contribute any significant, additional hazards. All hazard information pertinent to this product has been presented in the remaining sections of this Material Safety Data Sheet, per the requirements of Federal Occupational Safety and Health Hazard Communication Standard (29 CFR 1910.1200). |                   |                   |                   |                   |                   |
| VOC: As Applied (Part of a multi-component system) <100 grams/liter   |            |         |   |                   |                   |                   |                   |                   |

NE = Not Established. C = Ceiling Limit. See Section 16 for Definitions of Terms Used.

NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format

**4. FIRST-AID MEASURES**

General information: Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

SKIN EXPOSURE: For Skin contact, if available, wash with large amounts of running water and soap for 15 minutes. Remove contaminated clothing and shoes. Discard or decontaminate clothing before re-use.,

EYE EXPOSURE: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Remove contact lenses..

INHALATION: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration.

INGESTION: Prevent aspiration of vomit. Turn victims head to the side. Never give anything by mouth to an unconscious person.

PERSONAL PROTECTION FOR FIRST-AID RESPONDERS: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Most important symptoms/effects, acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available

Treatment: NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation

**5. FIRE-FIGHTING MEASURES**

FLASH POINT, °C (method): >248°C (478°F) Closed Cup

AUTOIGNITION TEMPERATURE, °C: NE

FLAMMABLE LIMITS (in air by volume, %): Lower (LEL): NE  
Upper (UEL): NE

FIRE EXTINGUISHING MATERIALS:

Water Spray: YES

Foam: YES

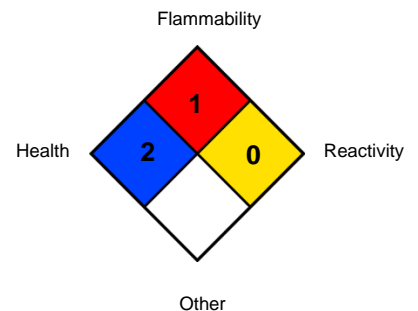
Halon: YES

Carbon Dioxide: YES

Dry Chemical: YES

Other: Any "ABC" Class.

**NFPA RATING**



**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Run-off from fire control may cause pollution. Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product from broken containers increasing contamination. If involved in a fire, this product may decompose to produce a variety of compounds (i.e. carbon monoxide, carbon dioxide, and other compounds). Emergency responders must wear the proper personal protective equipment suitable for the situation to which they are responding. Products of combustion are irritating to the respiratory tract and may cause breathing difficulty. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

Explosion Sensitivity to Mechanical Impact: Not sensitive.

Explosion Sensitivity to Static Discharge: Not sensitive.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Incipient fire responders should wear eye protection. Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers, if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas. If necessary, discard or decontaminate fire response equipment before returning such equipment to service.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

The proper personal protective equipment for incidental releases (e.g. -1 L of the product released in a well-ventilated area) use impermeable gloves, specific for the material handled, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard-hat. Self Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, Select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations. Absorb spilled liquid with polypads or other suitable absorbent materials. Neutralize residue with sodium bicarbonate and water rinse. Decontaminate the area thoroughly. Test area with litmus paper to confirm neutralization. Place all spill residue in a suitable container. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations (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. Wash hands after handling this product. Do not eat or drink while handling this material. Remove contaminated clothing immediately. Discard contaminated clothing items, or launder before re-use. Inform anyone handling such contaminated laundry of the hazards associated with this product. Use ventilation and other engineering controls to minimize potential exposure to this product.

**STORAGE AND HANDLING PRACTICES:** All employees who handle this material should be trained to handle it safely. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. **Keep from freezing.**

**For Non-Bulk Containers:** Open containers slowly, on a stable surface. Containers of this product must be properly labeled. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers, or in a diked area, as appropriate. Store containers away from incompatible chemicals. Keep container tightly closed when not in use. Wash thoroughly after using this material. Storage areas should be made of fire-resistant materials. If appropriate, post warning signs in storage and use areas. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid, therefore, empty containers should be handled with care.

**Bulk Containers:** All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

**Tank Car Shipments:** Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be grounded, level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tank (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be clean and free of incompatible chemicals, prior to connection to the tank car or vessel. Valves and hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

**PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:** Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Decontaminate equipment before maintenance begins by a triple-rinse with water followed, if necessary, by using sodium bicarbonate and an additional rinse. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS:** If required use a corrosion-resistant ventilation system separate from other exhaust ventilation systems to ensure that there is no potential for overexposure to sprays, or mists of this product and that exposures are below those in section 2 (Composition and Information on Ingredients). Ensure eyewash/safety shower stations are available near areas where this product is used.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below exposure limits listed in Section 2 (Composition and Information on Ingredients). If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. If adequate ventilation is not available or if there is potential for airborne exposure above the exposure limits (listed in Section 2) a respirator may be worn up to respirator exposure limitations, check with respirator equipment manufactures recommendations/limitations. For a higher level of protection use positive pressure supplied air respiration protection or Self Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

**EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS:**

Positive pressure, full-facepiece Self Contained Breathing Apparatus; or positive pressure, full-facepiece Self Contained Breathing Apparatus with an auxiliary positive pressure Self Contained Breathing Apparatus.

**EYE PROTECTION:** Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

**HAND PROTECTION:** Wear appropriate gloves for routine industrial use. Use appropriate gloves for spill response, as stated in Section 6 of this SDS (Accidental Release Measures).

**BODY PROTECTION:** Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from natural rubber are generally acceptable, depending upon the task.

**For Routine  
Industrial  
Applications**



**Safety Glasses**



**Safety Gloves**

**9. PHYSICAL and CHEMICAL PROPERTIES**RELATIVE VAPOR DENSITY (air = 1): > NDSPECIFIC GRAVITY (water = 1): 1.11SOLUBILITY IN WATER: InsolubleVAPOR PRESSURE: 25.339 hPa (21°C)ODOR: SlightLOG WATER/OIL DISTRIBUTION COEFFICIENT: Not available.EVAPORATION RATE (n-BuAc=1): NDMELTING/FREEZING POINT: Not established.BOILING POINT: 100°CpH: neutral

APPEARANCE AND COLOR: This product is a milky white liquid.

HOW TO DETECT THIS SUBSTANCE (warning properties): ND

**10. STABILITY and REACTIVITY**STABILITY: Stable.DECOMPOSITION PRODUCTS: Thermal decomposition products of this solution can include a variety of compounds. (i.e. carbon monoxide, carbon dioxide, chlorine and other compounds).MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Avoid water-reactive materials, heat or contact with peroxides or other catalysts.HAZARDOUS POLYMERIZATION: Will not occur by itself.CONDITIONS TO AVOID: Avoid exposure or contact to incompatible chemicals.**11. TOXICOLOGICAL INFORMATION**TOXICITY DATA: Additional toxicology information for components greater than 1 percent in concentration is provided below.

Information on likely routes of exposure

Inhalation: No data available  
 Skin contact: No data available  
 Eye contact: No data available  
 Ingestion: No data available

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available  
 Skin contact: No data available  
 Eye contact: No data available  
 Ingestion: No data available

Information on toxicological effects

|            |         |  |
|------------|---------|--|
| Oral       | Product | No data is available on the product itself |
| Dermal     | Product | No data is available on the product itself |
| Inhalation | Product | No data is available on the product itself |

Repeated dose toxicity

|         |                      |
|---------|----------------------|
| Product | No data is available |
|---------|----------------------|

Skin Corrosion/irritation

|         |   |
|---------|---|
| Product | Not irritating. Non-irritant to the skin of a rabbit (Testing was performed on this or similar materials) |
|---------|---|

Serious Eye Damage/Eye Irritation

|         |   |
|---------|---|
| Product | Not irritating Mildly irritating (Testing was performed on this or similar materials) |
|---------|---|

Respiratory or Skin Sensitization

|         |  |
|---------|--|
| Product | May cause sensitization by skin contact. |
|---------|--|

## Carcinogenicity

Product No data available

## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

## US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogens present or none present in regulated quantities

## Germ Cell Mutagenicity

In Vitro Product No data available

In Vivo Product No data available

Reproductive toxicity Product No data is available on the product itself

## Specific Target Organ Toxicity – Single Exposure

Product No data available

## Specific Target Organ Toxicity – Repeated Exposure

Product No data available

## Aspiration Hazard

Product No data available

Other effects No data available

**12. ECOLOGICAL INFORMATION**

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

## Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product No data is available on the product itself

Aquatic Invertebrates Product No data is available on the product itself

Chronic hazards to the aquatic environment:

Fish Product No data available

Aquatic Invertebrates Product No data available

Toxicity to Aquatic Plants Product No data is available on the product itself

## Persistence and Degradability

Biodegradation Product No data available

BOD/COD Ratio Product No data available

## Bioaccumulative potential

Bioconcentration factor (RCF) Product No data available

## Partition Coefficient n-octanol / water (log Know)

Product Log Know: No data available

## Mobility in soil

Product No data available

Components Oxirane, 2,2'-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)] bis, homopolymer No data available

Water No data available

Other adverse effects Do not allow to enter soil, waterways or waste water canal

**13. DISPOSAL CONSIDERATIONS**

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

EPA WASTE NUMBER: NA

**14. TRANSPORTATION INFORMATION**

Department of Transportation: Not regulated

IATA: Not regulated

IMDG: Not regulated

TDG: Not regulated

**15. REGULATORY INFORMATION**US Federal Regulations

TSCA Section 12(b) export Notification (40 CFR 707, Subpt. D

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities

CERCLA Hazardous Substance List (40 CFR 302.4)

None present or none present in regulated quantities

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Respiratory or Skin Sensitization

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities

US EPCRA (SARA Title III) section 304 Extremely Hazardous Substances Reporting Quantities and the

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

SARA 313 (TRI Reporting)

None present or none present in regulated quantities

Clean Air Act (CAA) section 112@ Accidental Release Prevention (40 CFR 68.13):

None present or none present in regulated quantities


Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities

**STATE REGULATORY INFORMATION:** Components of this product are covered under specific State regulations, as denoted below:

New Jersey Right-to-know: The following is required composition information: No listings

Pennsylvania Right-to-know: The following is required composition information: No listings

**CALIFORNIA PROPOSITION 65:**  The components of this product listed below are known to the state of California to cause cancer, birth defects or other reproductive harm.

None listed

Canadian DSL: All components are listed or exempted from the Canadian DSL.

WHMIS 1988 Classification:

D2B - Poisonous and infectious material - Other effects – Toxic



D2B – Toxic

WHMIS 1988 Health Effects Criteria Met by this Chemical:

D2B - Eye irritation - toxic - other

D2B - Skin Sensitization - toxic - other

WHMIS 1988 Ingredient Disclosure List:

Not included. Meets criteria for disclosure at 1% or greater.



## 16. OTHER INFORMATION

PREPARED BY: BILL BEACH  
CROSSFIELD PRODUCTS CORP.

THIS INFORMATION IS DRAWN FROM RECOGNIZED SOURCES BELIEVED TO BE RELIABLE. CROSSFIELD PRODUCTS CORP. MAKES NO GUARANTEES NOR ASSUMES ANY LIABILITY IN CONNECTION WITH THIS INFORMATION. THE USER SHOULD BE AWARE OF CHANGING TECHNOLOGY, RESEARCH, REGULATIONS AND ANALYTICAL PROCEDURES THAT MAY REQUIRE CHANGES HEREIN. THE ABOVE DATA IS SUPPLIED UPON THE CONDITION THAT PERSONS WILL EVALUATE THIS INFORMATION AND THEN DETERMINE ITS SUITABILITY FOR THEIR USE.

## DEFINITIONS OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

**CAS #:** This is the Chemical Abstract Service Number which uniquely identifies each constituent. It is used for computer-related searching.

**EXPOSURE LIMITS IN AIR:**

**ACGIH** - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits.

**TLV - Threshold Limit Value** - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour **Time Weighted Average (TWA)**, the 15-minute **Short Term Exposure Limit**, and the instantaneous **Ceiling Level**. Skin adsorption effects must also be considered.

**OSHA** - U.S. Occupational Safety and Health Administration.

**PEL - Permissible Exposure Limit** - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order.

**IDLH - Immediately Dangerous to Life and Health** - This level represents a concentration from which one can escape within 30-minutes without suffering escape-preventing or permanent injury. **The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**RELs**). When no exposure guidelines are established, an entry of **NE** is made for reference.

**HMIS HAZARD RATINGS:**

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:** Health Hazard:

**0** (minimal acute or chronic exposure hazard); **1** (slight acute or chronic exposure hazard); **2** (moderate acute or significant chronic exposure hazard); **3** (severe acute exposure hazard; onetime over-exposure can result in permanent injury and may be fatal); **4** (extreme acute exposure hazard; onetime over-exposure can be fatal). Flammability Hazard: **0** (minimal hazard); **1** (materials that require substantial pre-heating before burning); **2** (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); **3** (Class IB and IC flammable liquids with flash points below 38°C [100°F]); **4** (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F]). Reactivity Hazard: **0** (normally stable); **1** (material that can become unstable at elevated temperatures or which can react slightly with water); **2** (materials that are unstable but do not detonate or which can react violently with water); **3** (materials that can detonate when initiated or which can react explosively with water); **4** (materials that can detonate at normal temperatures or pressures).

**NATIONAL FIRE PROTECTION ASSOCIATION:** Health Hazard: **0**

(material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); **1** (materials that on exposure under fire conditions could cause irritation or minor residual injury); **2** (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); **3** (materials that can on short exposure could cause serious temporary or residual injury); **4** (materials that under very short exposure could cause death or major residual injury). Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

**FLAMMABILITY LIMITS IN AIR:**

Much of the information related to fire and explosion is derived from the **National Fire Protection Association (NFPA)**. Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

**TOXICOLOGICAL INFORMATION:**

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: **LD<sub>50</sub>** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC<sub>50</sub>** - Lethal Concentration (gases) which kills 50% of the exposed animals; **ppm** concentration expressed in parts of material per million parts of air or water; **mg/m<sup>3</sup>** concentration expressed in weight of substance per volume of air; **mg/kg** quantity of material, by weight, administered to a test subject, based on their body weight in kg. Data from several sources are used to evaluate the cancer-causing potential of the material. The sources are: **IARC** - the International Agency for Research on Cancer; **NTP** - the National Toxicology Program, **RTECS** - the Registry of Toxic Effects of Chemical Substances, **OSHA** and **CAL/OSHA**. IARC and NTP rate chemicals on a scale of decreasing potential to cause human cancer with rankings from 1 to 4. Subrankings (2A, 2B, etc.) are also used. Other measures of toxicity include **TDLo**, the lowest dose to cause a symptom and **TCLo** the lowest concentration to cause a symptom; **TDo**, **LDLo**, and **LDo**, or **TC**, **TCo**, **LCLo**, and **LCo**, the lowest dose (or concentration) to cause death. **BEI** - Biological Exposure Indices, represent the levels of determinants which are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV.

**REGULATORY INFORMATION:**

This section explains the impact of various laws and regulations on the material. **EPA** is the U.S. Environmental Protection Agency. **WHMIS** is the Canadian Workplace Hazardous Materials Information System. **DOT** and **TC** are the U.S. Department of Transportation and the Transport Canada, respectively. Other acronyms used are: **Superfund Amendments and Reauthorization Act (SARA)**; the **Toxic Substance Control Act (TSCA)**; Marine Pollutant status according to the **DOT**; California's Safe Drinking Water Act (**Proposition 65**); the **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund)**; and various state regulations. This section also includes information on the precautionary warnings which appear on the materials package label.