

CROSSFIELD PRODUCTS CORPORATION

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MATERIAL SAFETY DATA SHEET

PART I *What is the material and what do I need to know in an emergency?*

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): **SR Aggregate**

CHEMICAL NAME/CLASS: Silica, Aluminum Oxide Blend

PRODUCT USE: Deck Covering Polymer Admix

SUPPLIER/MANUFACTURER'S NAME: Crossfield Products Corp.

ADDRESS: (West Coast): 3000 E. Harcourt St.
Rancho Dominguez, CA 90221 (Headquarters)

ADDRESS: (East Coast): 140 Valley Rd.
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Si usted no entiende las Hojas de Informacion de Seguridad sobre Materials, busque a alguien para que se la explique a usted en detalle. (If you do not understand the Material Safety Data Sheet, find someone to explain it to you in detail.)

2. COMPOSITION and INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CAS # | % w/w | EXPOSURE LIMITS IN AIR | | | | | |
|---|------------|---------|---|---------------------------|-----------------------------------|---------------------------|---------------------------|---|
| | | | ACGIH | | OSHA | | IDLH mg/m ³ | OTHER mg/m ³ |
| | | | TLV mg/m ³ | STEL mg/m ³ | PEL mg/m ³ | STEL mg/m ³ | | |
| Silicone Dioxide | 14808-60-7 | 40 - 70 | Quartz: 0.025 mg/m ³ Cristobalite: 0.025 mg/m ³ Tridymite: Not Listed | NE | | NE | NE | 10 mg/m ³ Cristobalite & Tridymite: 5 mg/m ³ |
| Aluminum Oxide | 1344-28-1 | 40 - 70 | NE | NE | 15 (Total Dust) 5 (Respirable) | NE | NE | |
| 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). | | | | | |

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.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product is a light colored aggregate. A single short term exposure to the dry powder is not likely to cause serious harm. However, irritation of the upper respiratory tract and lungs may result from accidental or chronic occupational exposure to the dust of this product.

SYMPTOMS OF OVER-EXPOSURE BY ROUTE OF EXPOSURE: This product can damage skin, eyes, mucous membranes, and other contaminated tissue.

INHALATION: Exposure to this product may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also aggravate other lung conditions. Potential health effects of inhalation are as follows: *Silicosis* – Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive: it may lead to disability and death. *Lung Cancer* – Crystalline silica (quartz) inhaled is classified by IARC as a carcinogen. *Tuberculosis* – Silicosis increases the risk of Tuberculosis. *Autoimmune and Chronic Kidney Disease* – Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. *Non-Malignant Respiratory diseases (other than Silicosis)* – Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.

CONTACT WITH SKIN: Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure. Consequently, the only effective means of avoiding skin injury or illness involves minimizing skin contact, particularly contact with wet product. Exposed persons may not feel discomfort until hours after the exposure has ended and significant injury has occurred. Exposure to dry material may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions.

CONTACT WITH EYES: Exposure to airborne dust may cause immediate or delayed irritation or inflammation. Eye contact by larger amounts of dry powder or splashes of wet material may cause moderate eye irritation. Such exposures require first aid (see section 4) and medical attention to prevent significant damage to the eye.




INGESTION: Though ingestion is not anticipated to be a significant route of over-exposure to this product, ingestion of large amounts can be harmful and requires immediate medical attention.

INJECTION: Though injection is not anticipated to be a significant route of over-exposure to this product.

HEALTH EFFECTS OR RISKS FROM EXPOSURE: An Explanation in **Lay Terms**.

ACUTE: Short term exposure to the dry powder is not likely to cause serious harm. However, irritation of the upper respiratory tract and lungs may result from accidental or chronic occupational exposure to the dust of this product.

CHRONIC: Repeated skin contact with this product may result in dermatitis (inflammation and reddening of the skin) and skin sensitization.

| Hazardous Material Information System | | | |
|--|---------------|---|---|
| HEALTH (Blue) | | 0 | |
| FLAMMABILITY (Red) | | 0 | |
| REACTIVITY (Yellow) | | 0 | |
| PROTECTIVE EQUIPMENT | | F | |
| EYES | RESP. | HANDS | BODY |
|  Safety Glasses | See Section 8 |  Gloves |  Protective Apron |
| For Routine Industrial Applications | | | |

PART II *What should I do if a hazardous situation occurs?*

4. FIRST-AID MEASURES

SKIN EXPOSURE: Wash skin with cool water and pH-neutral soap or a mild detergent intended for use on skin. Seek medical treatment in cases of prolonged exposure to wet product or prolonged wet skin exposure to dry product.

EYE EXPOSURE: For eye contact, immediately flush eyes for at least 15 minutes with running water. Use lukewarm water if possible. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water, then remove contact lenses (if easily removable) and continue eye irrigation for not less than 15 minutes. Get medical attention if irritation develops.

INHALATION: Move to an area free from further exposure. Get medical attention if coughing and other symptoms do not subside. Inhalation of gross amounts requires immediate medical attention.

INGESTION: If swallowed, do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. If conscious, drink plenty of water and get medical attention.

5. FIRE-FIGHTING MEASURES

FLASH POINT, °C (method): None

AUTOIGNITION TEMPERATURE: None

FLAMMABLE LIMITS (in air by volume, %):

Lower (LEL): NA

Upper (UEL): NA

FIRE EXTINGUISHING MATERIALS: Will not Burn

Water Spray: NA

Foam: NA

Halon: NA

Carbon Dioxide: NA

Dry Chemical: NA

Other: NA.

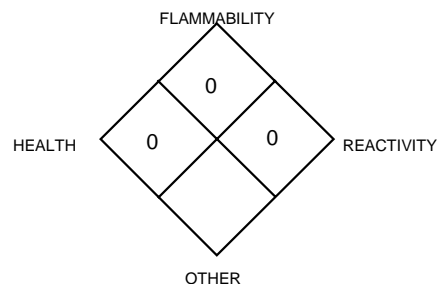
UNUSUAL FIRE AND EXPLOSION HAZARDS: Run-off from fire control may cause pollution. High pressure water hose may spread product from broken containers increasing contamination. Emergency responders must wear the proper personal protective equipment suitable for the situation to which they are responding. 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: Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. 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.

NFPA RATING



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.

Shut off sources of ignition. Place all spill residue in a metal containers for recovery or disposal. Dispose of in accordance with Federal, State, and local hazardous waste disposal regulations (see Section 13, Disposal Considerations).

PART III *How can I prevent hazardous situations from occurring*

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 contaminated laundry of the hazards associated with this product. Use ventilation and other engineering controls to minimize potential exposure to this product. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded.

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

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. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

8. EXPOSURE CONTROLS - 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 dust, 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 manufacturers 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 Nitrile, Butyl, or Neoprene rubber gloves are suitable. Use appropriate gloves for spill response, as stated in Section 6 of this MSDS (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.

9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): NA

SPECIFIC GRAVITY (water = 1): > 4

VAPOR PRESSURE, mm Hg @ 20 °C: NE

ODOR: No distinct odor

LOG WATER/OIL DISTRIBUTION COEFFICIENT: NA.

SOLUBILITY IN WATER: Insoluble

APPEARANCE AND COLOR: This product is a light colored aggregate.

HOW TO DETECT THIS SUBSTANCE (warning properties): ND

EVAPORATION RATE (n-BuAc=1): NA

MELTING/FREEZING POINT: ND

BOILING POINT: NA

pH: (In water) NA

10. STABILITY and REACTIVITY

STABILITY: Stable.

DECOMPOSITION PRODUCTS: Not combustible.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: ND

HAZARDOUS POLYMERIZATION: Will not occur by itself.

CONDITIONS TO AVOID: Avoid exposure or contact to extreme temperatures and incompatible chemicals.

PART IV *Is there any other useful information about this material?*

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA: Additional toxicology information for components greater than 1 percent in concentration is provided below.

Toxicity Data Silicone Dioxide (14808-60-7)

| Organism | Test Type | Route | Reported Dose | Effect | Source |
|----------|-------------------|---------------|--|---|--|
| Dog | LDLo ¹ | Intravenous | 20 mg/kg | | Biochemical Journal, Vol. 27, Pg. 1007, 1933 |
| Human | LCLo ² | Inhalation | 0.3 mg/m ³ | Liver: Other Changes | Annals of the New York Academy of Sciences, Vol. 127, Pg. 324, 1976 |
| Human | TCLo ³ | Inhalation | 16 mppcf (million particles per cu. ft.) | LUNGS, THORAX, or RESPIRATION: "Fibrosis, Focal (Pneumoconiosis)" LUNGS, THORAX, or RESPIRATION: Cough LUNGS, THORAX, or RESPIRATION: Dyspnea | National Technical Information Service. Vol. PB246-697 |
| Mouse | LD ₄ | Intratracheal | >20 mg/kg | LUNGS, THORAX, or RESPIRATION: Other Changes | American Review of Respiratory Disease, Vol. 141(Suppl), Pg. A3-A937, 1990 |
| Mouse | LDLo ¹ | Intravenous | 40 mg/kg | | Journal of the National Cancer Institute Vol. 1, Pg. 241, 1940 |
| Rat | LDLo ¹ | Intratracheal | 200 mg/kg | LUNGS, THORAX, or RESPIRATION: "Fibrosis, Focal (Pneumoconiosis)" | British Journal of Industrial Medicine. Vol. 10, Pg. 9, 1953 |
| Rat | LDLo ¹ | Intravenous | 90 mg/kg | | Journal of the National Cancer Institute Vol. 57, Pg. 509, 1976 |

¹LDLo – (Lethal Dose Low), the lowest dose of material to cause death in the organism.

²LCLo – (Lethal Concentration Low), the lowest concentration of material in air at which death occurs. (Gases, mists, dusts, or vapors)

³TCLo – (Toxic Concentration Low), the lowest concentration of a material in air at which toxic effects occur. (Gases, mists, dusts, or vapors)

⁴LD – (Lethal Dose), the dose at which lethality occurs in the single test organism.

SUSPECTED CANCER AGENT:

IARC classifies crystalline silica in Group 1, "known human carcinogen."

NTP classifies respirable crystalline silica in a category of substances which is "known to be a human carcinogen"

IRRITANCY OF PRODUCT: This product is irritating to contaminated tissue.

SENSITIZATION TO THE PRODUCT: Prolonged or repeated skin contact can result in the development of rashes, and other allergy-like symptoms.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: This product is not reported to produce mutagenic effects in humans.

Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.

Teratogenicity: This product is not reported to cause teratogenic effects in humans.

Reproductive Toxicity: This product is not reported to cause reproductive effects in humans.

A mutagen is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate through generational lines. An embryotoxin is a chemical which causes damage to a developing embryo (i.e. within the first eight weeks of pregnancy in humans), but the damage does not propagate across generational lines. A teratogen is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A reproductive toxin is any substance which interferes in any way with the reproductive process.

BIOLOGICAL EXPOSURE INDICES: Currently there are no Biological Exposure Indices (BEIs) associated with the components of this product.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Skin disorders can be aggravated by over-exposure to this product. Inhalation of this products mists may aggravate respiratory conditions.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate over-exposure to this product.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

Ecological Data:

ND

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. Not a RCRA hazardous waste. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

EPA WASTE NUMBER: NA

14. TRANSPORTATION INFORMATION

Department of Transportation: Not Regulated

Reportable Quantity (RQ): None

Sea Transport (IMDG): Not Regulated

Air Transport (ICAO/IATA): Not Regulated

15. REGULATORY INFORMATION

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

United States Federal Regulations

OSHA Hazcom Standard Rating: NE

US. EPA CERCLA Hazardous Substances (40 CFR 302): Components - None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): Components - None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65): Components – None

TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

REGULATORY INFORMATION CONT.

Stare Regulatory Information: Components of this product are covered under specific State regulations, as denoted below:

Massachusetts, New Jersey, or Pennsylvania Right-to-know: The following is required composition information:

CAS Number: 14808-60-7
Chemical Name: Silica, Quartz

CALIFORNIA PROPOSITION 65: This product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm. Carcinogens:

14808-60-7 Quartz

Canadian Regulations:

WHMIS SYMBOLS: D2A

Class D - Poisonous and Infectious Material
Division 2 Materials Causing Other Toxic Effects
(Skin or eye irritant)



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.

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: **LD₅₀** - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; **LC₅₀** - 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/m³** 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.