

CROSSFIELD PRODUCTS CORPORATION

www.crossfieldproducts.com

3000 E. Harcourt St. 140 Valley Rd.

Rancho Dominguez, CA 90221 (Headquarters)

Roselle Park, NJ 07204

(310)-886-9100 (8:00 AM – 5:00 PM Pacific Time) (908)-245-2800 (8:00 AM – 5:00 PM Eastern Time)

SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): Tek-Crete Fast Cure Additive

<u>CHEMICAL NAME/CLASS</u>: Polyol Dispersion <u>PRODUCT USE</u>: Decking Resin

<u>SUPPLIER/MANUFACTURER'S NAME</u>: Crossfield Products Corp.

ADDRESS: (West Coast): 3000 E. Harcourt St.

Rancho Dominguez, CA 90221 (Headquarters)

ADDRESS: (East Coast): 140 Valley Rd.

Roselle Park, NJ 07204

EMERGENCY PHONE: CHEMTREC: 800-424-9300

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2. HAZARD(S) IDENTIFICATION







GHS Classification

Skin corrosion – Category 1C Serious eye damage/eye irritation – Category 1

Skin sensitization – Category 1
Germ cell mutagenicity – Category 2
Reproductive toxicity – Category 1B

Specific target organ toxicity, repeated exposure, Oral - Category 1

Signal Word: (Danger)

Hazard Statements:

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H341: Suspected of causing genetic defects

H360: May damage fertility or the unborn child

H372a: Causes damage to organs through prolonged or repeated exposure if swallowed

Precautionary Statements:

P102: Keep out of reach of children

P103: Read label before use

P260: Do not breath dust/fume/gas/mist/vapors/spray

P264: Wash hands thoroughly after handling

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

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

HMIS-RATINGS (SCALE 0 - 4)

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0

Health = 3 Fire = 0 Reactivity = 0 **NFPA RATING**



3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	% EXPOSURE LIMITS IN AIR							
		3.5 mg/m ³	ACGIH		OSHA				
			TLV	STEL	PEL	STEL	IDLH	OTHER	
			mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	
Mixture	Trade Secret	60 - 100	ND	ND	ND	ND	ND		
Calcium Formate	544-17-2	0 - 20	ND	ND	ND	ND	ND		
Dibutyltin Dilaurate	77-58-7	0 - 20	TWA 0.1	0.2	TWA 0.1	ND	ND		
Water and other ingredients. The other hazardous ingredients are each present in less than 1 percent concentration in this product.	Balance additional hazards. All hazard information pertinent to this product has been presented in the								
VOC Component = 0 g/L As Applied (Part of multi-component system) = 0 g/L									

ND = Not Determined 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

<u>GENERAL ADVICE</u>: Seek medical advice. If breathing has stopped or is labored, give addicted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

<u>SKIN EXPOSURE</u>: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay, Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take of contaminate clothing and shoes immediately.

EYE EXPOSURE: Quickly and gently blot or brush chemical off the face. Flush the contaminated eye with lukewarm, gently flowing water for 5 minutes. GET MEDICAL ATTENTION.

<u>INHALATION</u>: If symptoms art experienced, remove source of contamination or move victim to fresh air and seek medical attention.

<u>INGESTION</u>: Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

5. FIRE-FIGHTING MEASURES

FLASH POINT, °C (method): >100°C (212°F) Closed Cup

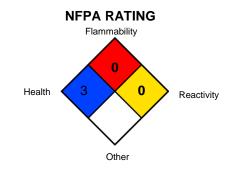
AUTOIGNITION TEMPERATURE, °C: NE

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

Upper (UEL): NE

FIRE EXTINGUISHING MATERIALS:

Water Spray: YES Carbon Dioxide: YES
Foam: YES Dry Chemical: YES
Halon: YES Other: Any "ABC" Class.





<u>UNUSUAL FIRE AND EXPLOSION HAZARDS</u>: 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.

<u>Explosion Sensitivity to Mechanical Impact</u>: Not sensitive. <u>Explosion Sensitivity to Static Discharge</u>: Not sensitive.

<u>SPECIAL FIRE-FIGHTING PROCEDURES</u>: 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

<u>SPILL AND LEAK RESPONSE</u>: 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

<u>WORK PRACTICES AND HYGIENE PRACTICES</u>: 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.

<u>STORAGE AND HANDLING PRACTICES</u>: 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 blowndown 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

<u>VENTILATION AND ENGINEERING CONTROLS</u>: 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.

<u>RESPIRATORY PROTECTION</u>: 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.

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

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

<u>BODY PROTECTION</u>: 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



Synthetic Apron



Saicty Cloves



9. PHYSICAL and CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1): > ND

SPECIFIC GRAVITY (water = 1): ND

EVAPORATION RATE (n-BuAc=1): ND

MELTING/FREEZING POINT: Do Not Freeze.

<u>SOLUBILITY IN WATER</u>: Dispersable <u>BOILING POINT</u>: > ND

<u>VAPOR PRESSURE, mm Hg @ 20°C</u>: ND <u>pH</u>: NA

ODOR: Slight

LOG WATER/OIL DISTRIBUTION COEFFICIENT: Not available.

APPEARANCE AND COLOR: Milky white liquid.

HOW TO DETECT THIS SUBSTANCE (warning properties): ND

10. STABILITY and REACTIVITY

STABILITY: Stable.

<u>DECOMPOSITION PRODUCTS</u>: Thermal decomposition products of this solution can include a variety of compounds. (i.e. carbon monoxide, carbon dioxide, oxides of nitrogen and other compounds).

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Oxidizing agents

HAZARDOUS POLYMERIZATION: Will not occur by itself.

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

11. TOXICALOGICAL INFORMATION

CAS 544-17-2 Calcium Formate

Acute Toxicity

Oral LD50 2650 mg/kg (Rat)

1920 mg/kg (mice)

Dermal LD50 No Data Inhalation LD50 No Data

Carcinogenicity This product does not contain any components I concentrations greater that or equal to

0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or

OSHA

CAS 77-58-7 Dibutyltin Dilaurate

Acute Toxicity

Oral LD50 >2000 mg/kg (Rat)

Dermal LD50 >2000 mg/kg (Rabbit) (Estimated)

Inhalation No Data

Carcinogenicity This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or

OSHA in concentration of 0.1% or greater. Reproductive toxin., May cause allergic skin reaction, eye diseases, skin disorders, allergies, asthma, kidney disorders, and liver

disorders.

Germ cell mutagenicity Suspected of causing genetic defects

Abnormalities noted at necropsy of animals treated with 2000 mg/kg of dibutyltin dilaurate were haemonhagic lungs, dark liver, dark kidneys, haemorrhage of gastric mucosa, haemorrhage of the large and small intestines, enlarged bila duct and behavioral and central nervous system effects. Decreased fertility was seen in hens following dietary administration equal to 78 mg/kg.



12. ECOLOGICAL INFORMATION

CAS 544-17-2 Calcium Formate

Ecotoxicity No Data

Acute aquatic toxicity LC50 (96h static) >=1000 mg/L (Brachydania rerio)

Persistence and degradability
Bioaccumulative potential
Mobility
PBT and vPvB assessment
Other adverse effects
No data
No data
No data

CAS 77-58-7 Dibutyltin Dilaurate

Aquatic toxicity LC50 2 mg/L (Fish)

Toxicity to daphnia EC50 2.28 mg/L Idaphnia magna

Persistence and degradability
Bioaccumulative potential
Mobility
PBT and vPvB assessment
Other adverse effects
No data
No data
No data

13. DISPOSAL CONSIDERATIONS

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

EPA WASTE NUMBER: NA

14. TRANSPORTATION INFORMATION

Department of Transportation: IMDG Shipping Data

Proper Shipping Name: Paint related material Proper Shipping Name: Paint related material Class: 8

 Class:
 8
 Class:
 8

 UN/ID No.:
 UN/ID No:
 UN/ID No:
 UN/3066

Packing Group: III Packing Group: III III Packing Group: III Yes Marine Pollutant Yes (Dibutyltin dilaurate)

IATA Shipping Data: TDG

Proper Shipping Name: Paint related material Proper Shipping Name: Paint Related Material

Class: 8 UN/ID No.: 8 UN3066f UN/ID No.: 8

Packing Group:

III

Marine Pollutant:

Yes (Dibutyltin dilaurate)

ON/ID No.:

90000

Packing Group:

III

Marine Pollutant:

Yes



15. REGULATORY INFORMATION

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

SARA REPORTING REQUIREMENTS:

EPA SARA Title III Section 311/312 (40 CFR 370) Hazard Classification: Acute Health Hazard, Chronic Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Components above 'de minimus' level:

SARA Threshold Planning Quantity: Not applicable.

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

<u>CERCLA REPORTABLE QUANTITY (RQ)</u>: None <u>OTHER FEDERAL REGULATIONS</u>: Not applicable.

<u>STATE REGULATORY INFORMATION</u>: Components of this product are covered under specific State regulations, as denoted below:

Massachusetts, New Jersey, Pennsylvania Right-to-know:

Not Listed

No Listings

CANADIAN DSL: All components of this product are on the Canadian DSL

WHMIS:

No Listings



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 (<u>Federal Register</u>: 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: <u>Health Hazard</u>: 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). <u>Flash Point</u> - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. <u>Autoignition Temperature</u>: The minimum temperature required to initiate combustion in air with no other source of ignition. <u>LEL</u> - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. <u>UFL</u> - 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: \mathbf{LD}_{50} - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC_{50} - 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.