

## SECTION 1 IDENTIFICATION

Product Name: Flutecorr®

Covers the following grade(s): Graphics & Packaging

Product Type: Corrugated sheeting

Use: a wide range of panel/sheet applications in graphics, packaging and more.

Supplier:

Laminacorr Industries Inc.

2950 Marleau Avenue

Cornwall, Ontario Canada K6H5R1

Business Phone: (866) 843-8704

## SECTION 2 HAZARDS IDENTIFICATION

**OSHA Classification of the substance or mixture (GHS-US):**

**Label Elements:**

- Combustible Dust
- Signal word (GHS-US): Warning
- Hazard Statement(s): If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

**Acute Toxicity**

No additional information available.

**Additional Information**

Processing the sheet at high temperatures may form vapors that irritate the eyes and respiratory tract.

Rough edges of sheets could result in minor cuts to hands. Appropriate gloves should be worn to prevent cuts and/or scrapes.

Avoid contact with strong oxidizing agents.

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance: NA

Mixture:

| Ingredient Name              | CAS #                            | % Wt.     |
|------------------------------|----------------------------------|-----------|
| 1-Propene, Homopolymer       | 9003-07-0                        | ≤ 100     |
| Ethylene/Propylene Copolymer | 9010-79-1                        | ≤ 100     |
| Additives                    | Mixture/Proprietary/Trade Secret | NA        |
| Titanium Dioxide             | 13463-67-7                       | 0.1 — 2.0 |
| Carbon Black                 | 1333-86-4                        | 0.1 — 2.0 |

To the best of our knowledge, there are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and require reporting in this section. However, dusts containing Titanium Dioxide and Carbon Black are considered potential human carcinogens by IARC.

## SECTION 4 FIRST AID MEASURES

The following applies should the sheets be cut, sanded or otherwise processed which generates dust, fragments or vapors.

### Eye Contact

Flush eyes with clean, cold, low-pressure running water for at least 15 minutes. Seek immediate medical attention.

### Skin Contact

If molten material contacts skin, immediately flush skin with large amounts of cold water. No attempt should be made to peel material from the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.

### Inhalation

Remove victim to well-ventilated area. If not breathing, provide artificial respiration by trained personnel. If difficulty breathing, provide oxygen and seek medical attention.

### Ingestion

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. If large quantities of this material is swallowed, call a physician immediately.

Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat. High dust concentrations have a potential for combustion or explosion.

## Most Important Symptoms/Effects, Acute and Delayed Skin

For cuts and scrapes, get medical attention. No significant irritation expected. Heated material can cause serious thermal burns. At high process temperatures, fumes may cause irritation of the nose and throat.

### Eyes

Possible mechanical irritation may manifest itself as local redness with possible discomfort. Heated material can cause thermal burns. When heated, vapors formed may irritate eyes. Material is dusty and may scratch eye.

### Inhalation

Exposure to high concentration of airborne particles may cause upper respiratory tract irritation. If heated, the product may form fumes which could cause irritation of the respiratory tract, coughing, nausea, and shortness of breath.

### Ingestion

May cause choking, diarrhea, nausea, or discomfort in the abdominal region.

## Indication of any immediate medical attention and special treatment

No additional information is available

### Chronic

Inhalation of fine dust is a potential carcinogen situation from respirable particles of carbon black and/or titanium dioxide

- Signal Word (GHS-US): Warning



- Hazard Statement(s): Titanium dioxide and carbon black have been classified by IARC as Group 2B carcinogens, possible human carcinogens, when they are inhaled as dusts. If dusty conditions occur from these products (e.g. during cutting or sanding), AVOID breathing dusts. The permissible exposure limit (PEL) for titanium dioxide (respirable dust) is 5 mg/m<sup>3</sup>. The PEL for carbon black is 3.5 mg/m<sup>3</sup>.

## SECTION 5

### FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media

High dust concentrations have a potential for combustion or explosion. In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

#### Unsuitable Extinguishing Media

Do not use water jet/stream.

#### Specific Hazard Arising from the Chemical

Fire —May be combustible at high temperature

#### Explosive Hazards

Material is not explosive as defined by established regulatory criteria. May ignite if ignition source is available. Potential dust explosion hazard.

#### Hazardous Thermal Decomposition Products

Flammability

#### Products of Combustion

Combustion can produce carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), hydrocarbons, aldehydes, organic vapors and other harmful products. Possible black smoke and soot.

#### Firefighting Protection

Wear NIOSH-approved positive pressure, self-contained breathing apparatus (SCBA) and full protective gear. Engage fire from a protected location. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Prevent fire-fighting water from entering environment.

May re-ignite after fire has been extinguished.

## SECTION 6

### ACCIDENTAL RELEASE MEASURES

As supplied, the product presents no risk of spill or release.

#### Personal Precautions, Protective Equipment and Emergency procedures

Handling and/or processing of this material may generate fine dust clouds that may form explosive mixtures with air.

#### Environmental and Clean-Up Methods

If emergency personnel are unavailable, vacuum or carefully collect spilled fragments, and place in an appropriate container for disposal. Recovered material should be packaged, labeled, transported, and disposed of in conformance to consistent with all applicable laws and regulations. If heated material is spilled, allow to cool before proceeding with cleanup methods. Avoid creating dusty conditions and prevent wind dispersal. Avoid contact of spilled fragments with soil and prevent runoff from entering sewers and waterways.

#### Personal Protection

Personnel should wear proper equipment.

## SECTION 7

### HANDLING AND STORAGE

#### Handling

Keep away from open flame or sources of ignition. There is a risk of being splashed with molten materials. At high temperatures, potentially toxic/irritating fumes may result from heated material - do not inhale fumes or vapor from molten product. Use with adequate ventilation. Pneumatic conveying and other mechanical handling can generate combustible dust and static charges. Ground all equipment.

High dust concentrations have a potential for combustion or explosion. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. It is recommended that skids/boxes are emptied away from explosive environments.

If the product is cut or sanded, avoid exposure to dust and debris. Provide appropriate local ventilation at machinery and at places where dust can be generated. In addition, wear suitable respiratory equipment to avoid breathing dusts.

#### Storage

Pallet stock slippage and forklift truck maneuvers can cause injury. It is recommended that adequate procedures covering storage handling of pallets are implemented and based on good manufacturing practices. Avoid contact or proximity to strong oxidizing agents.

Store at room temperature and protect from heat and direct sunlight. Store in a dry, cool, well-ventilated area.

Incompatible materials: strong oxidizing agents

## SECTION 8

### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

| Ingredients  | Type | Limit Value                          | Basis             |
|--|------|--------------------------------------|-------------------|
| Materials that can be formed when handling this product:<br>Non-specified (inert or nuisance) dust | TWA  | 10 mg/m <sup>3</sup> (Inhalable)     | US (ACGIH) 2005   |
| Materials that can be formed when handling this product:<br>Non-specified (inert or nuisance) dust | TWA  | 3 mg/m <sup>3</sup> (Respirable)     | US (ACGIH) 2005   |
| Materials that can be formed when handling this product:<br>Non-specified (inert or nuisance) dust | TWA  | 15 mg/m <sup>3</sup><br>(Total Dust) | US (OSHA)<br>2005 |
| Materials that can be formed when handling this product:<br>Non-specified (inert or nuisance) dust | TWA  | 5 mg/m <sup>3</sup> (Respirable)     | US (OSHA)<br>2005 |

#### Control Measures

Use enclosures around process, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits when handling this material. If high concentrations of airborne matter or fumes are generated, use ventilation to ensure levels are kept below the exposure limit. Clothing and shoes should be dusted before re-used.

#### Personal protection

##### Eyes

Safety glasses with side shields are required when cutting or processing the product. Use a full-face respirator if a high dust concentration is generated.

## Skin

Wear protective gloves to avoid incidental cuts or scrapes that occur when handling the edges of the product.

## Respiratory

Product processing may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended to use process enclosures and a local exhaust system, and that the working area is properly ventilated. If ventilation is inadequate, use certified respirator that will protect against dust/mist. Do not consume food in the processing/cutting area.

Consult your local authorities, supervisor or standard operation procedures for special handling directions and acceptable exposure limits.

## SECTION 9

### PHYSICAL AND CHEMICAL PROPERTIES

| Appearance                             |                                       |
|--|---------------------------------------|
| Physical state/form                    | solid (corrugated sheets)             |
| Color                                  | Opaque or various colors              |
| Odor                                   | Mild to none                          |
| Safety Data                            |                                       |
| Lower explosion limit                  | No data available                     |
| Upper explosion limit                  | No data available                     |
| Flammability                           | will burn but does not easily ignite. |
| Oxidizing properties                   | Not considered an oxidizing agent.    |
| Autoignition temperature               | No data available                     |
| Decomposition temperature              | No data available                     |
| pH                                     | No data available                     |
| Approximate melting point range        | 130 - 170°C (266 - 338 °F)            |
| Boiling point/boiling range            | No data available                     |
| Flash point                            | No data available                     |
| Vapor pressure                         | No data available                     |
| Density                                | < 1.5 g/cm <sup>3</sup>               |
| Water solubility                       | Negligible                            |
| Partition coefficient: n-octanol/water | No data available                     |
| Viscosity                              | No data available                     |
| Relative vapor density                 | No data available                     |
| Evaporation rate                       | No data available                     |

## SECTION 10

### STABILITY AND REACTIVITY

#### Reactivity

No known reactivity hazards.

#### Chemical Stability

Stable under appropriate handling and storage conditions.

## Conditions to avoid

Excessive temperatures, strong oxidizers, and all possible source of ignition (spark or flame), heat, and direct sunlight. Avoid dust formation.

## Incompatibility

Strong oxidizing materials, fluorine, halogens, benzene, aromatic and chlorinated hydrocarbons, nitric and perchloric acids and others.

## Decomposition products

*(not expected to decompose under normal conditions)*

Combustion can produce carbon monoxide and/or carbon dioxide and other toxic products (fumes). Decomposition can yield traces amount of hydrocarbons. Degradation products may include, among others, aldehydes, alcohols, ketones, and organic acids.

Hazardous polymerization is not expected to occur.

## SECTION 11

### TOXOLOGICAL INFORMATION

Likely Routes of Exposure: oral, dermal, inhalation, ingestion.

#### Acute toxicity (Listed for components where information is available)

|                      |                           |          |                                   |
|----------------------|---------------------------|----------|-----------------------------------|
| Propene, homopolymer | LD <sub>50</sub> oral rat | > 8 g/kg | Based on polyethylene homopolymer |
|----------------------|---------------------------|----------|-----------------------------------|

- Acute toxicity: Not classified.
- Skin corrosion/irritation: Not classified
- Serious eye damage/irritation: Not classified. Mechanical irritation is possible.
- Respiratory or skin sensitization: No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification). No data available for respiratory.
- Germ cell mutagenicity: No information available on the mixture, however none of the components have been classified for gem cell mutagenicity or are below the concentration threshold for classification).
- Carcinogenicity: IARC Group 3 - Not classifiable
- Aspiration hazard: Not applicable
- Specific target organ toxicity (single exposure): No information available on the mixture, however none of the components have been classified for skin sensitization or are below the concentration threshold for classification).
- Specific target organ toxicity (repeated exposure): No information available on the mixture, however none of the components have been classified for target organ toxicity or are below the concentration threshold for classification).
- Acute oral toxicity: Not classified
- Acute inhalation toxicity: Not classified
- Acute dermal toxicity: Not classified
- Reproduction toxicity: No information available on the mixture, however none of the components have been classified for reproduction toxicity or are below the concentration threshold for classification).

This product is not considered a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard.

## Other Information

During thermal processing polyolefins can release vapors and gases (aldehydes, ketones, and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally, these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as carcinogen based on animal data and limited epidemiological evidence.

## SECTION 12 ECOLOGICAL INFORMATION

### Ecotoxicology Assessment

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Wildlife may ingest fragments or dust. Although not toxic, such materials may physically obstruct the digestive system, causing starvation or death.

No testing has been performed by the manufacturer(s).

Acute aquatic toxicity: Not classified  
Chronic aquatic toxicity: Not classified

### Persistence and Degradability

Biodegradability: Not inherently biodegradable.  
Bioaccumulative potential: This material is not expected to bioaccumulate.

### Mobility

This product is expected to float on water, and is not likely to move rapidly with surface or groundwater flows due to its low water solubility. This material is insoluble in water.

Results of PBT and vPvB assessment: Not applicable.

### Other Information

This material is not volatile and insoluble in water. Avoid release to the environment.

## SECTION 13 DISPOSAL CONSIDERATIONS

The information in this SDS pertains only to the product without lamination(s)

### Waste Information

Recycle (code 5). Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations. Use only approved transporters, recyclers and treatment, storage or disposal facilities.

This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces. This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.33 paragraphs (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

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## SECTION 14 TRANSPORT INFORMATION

| Regulatory Authority | Shipping Description   |
|----------------------|--|
| DOT (USA)            | Not regulated as a hazardous material or dangerous goods for transportation. |

This information is not intended to convey all specific regulatory or operational requirements/ information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## SECTION 15 TRANSPORT INFORMATION

TSCA

All components of this product are listed or exempted from listing on the United States Environmental Protection Agency Toxic Substance Control Act (TSCA) inventory. This product has no special requirements under TSCA.

## SECTION 16 OTHER INFORMATION

### Label Requirements

This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.

### HMIS

Health Hazard: 0

Flammability: 1

Physical Hazard: 0

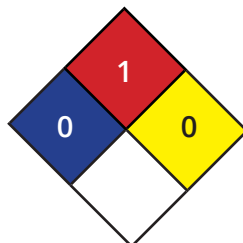


### NFPA

Health: 0

Fire Hazard: 1

Reactivity: 0



### Rating Scale Information

HMIS: (0 = minimal hazard; 4 = severe hazard)

NFPA: (0 = minimal hazard; 4 = severe hazard)



## NOTICE

This Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Laminacorr Industries.

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