



# MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)*

## 1. Product and Supplier Identification

**Product** Filled Polyester Resin

**Product Use:** Used as a component in composites for colour effect

**Supplier:** Fama Industries Corporation  
7-15050 54A Avenue  
Surrey, BC, Canada, V3S 5X7  
Telephone: (604) 574-0885  
Facsimile: (604) 574-1033

## 2. Composition

Component	% (w/w)	CAS Number	Exposure Limits ACGIH <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Unsaturated polyester	37-50	Not applicable (mixture)	Not applicable	No data	No data
Pigments which may include: Ferric Oxide	1-2	1309-37-1	TLV-TWA: 5 mg/m <sup>3</sup> (respirable fraction)	No data	No data
Carbon Black		1333-86-4	TLV-TWA: 3.5 mg/m <sup>3</sup> (respirable fraction)	>8000 mg/kg (rat/oral)	No data
Aluminum Trihydrate	45-63	21645-51-2	TLV-TWA <sup>2</sup> : 3 mg/m <sup>3</sup> (respirable fraction) 10 mg/m <sup>3</sup> (total fraction)	>5000 mg/kg (rat/oral)	No data
Remaining ingredients not controlled or below disclosure requirements	1-3	Not applicable	Not applicable	Not applicable	Not applicable

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1. ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH). Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.
2. OSHA TWA Limits

### 3. Hazards Identification

#### Routes of Entry:

Skin Contact: Minor    Eye Contact: Minor    Ingestion: Minor    Inhalation: Minor

**Emergency Overview:** The ingredients in this product are reacted and no residue of reactants exists. Inhalation of fine particulate may cause minor irritation of the respiratory tract. Contact with eyes may irritate the eye due to the presence of a foreign object.

#### Acute Health Effects:

**INHALATION:** In processing, fines may be created. Inhalation of fines may cause irritation of the upper respiratory tract causing coughing, sneezing, or in some cases, production of phlegm.

**SKIN CONTACT:** Not expected to have any effect on the skin other than irritation by abrasion.

**EYE CONTACT:** Contact with eye will cause irritation due to the presence of a foreign particle. Do not rub eye.

**INGESTION:** Ingestion is an unlikely route of entry. This is not expected to have any acute effects unless there is an accidental ingestion of a gross amount of this product. Symptoms may be gastrointestinal distress causing stomach pains.

**Chronic Health Effects:** Not applicable

#### Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin, respiratory tract disorders may be aggravated by exposure, but only because of nuisance particulate.

### 4. First Aid Measures

**INHALATION:** If overcome by high concentrations of nuisance dust, remove to fresh air. Seek medical attention for any respiratory stress that may occur due to exposure. Give artificial respiration if indicated.

**SKIN CONTACT:** Wash dust from skin with soap and water. If an irritation occurs, seek appropriate medical attention.

**EYE CONTACT:** If contact with eye occurs, remove contact lenses. Flush with plenty of water until the foreign matter is washed away.

**INGESTION:** In the unlikely event that ingestion occurs, consult a physician if the victim shows signs of gastrointestinal distress. Small amounts may pass through the body without harm.

**GENERAL COMMENTS:** Good personal hygiene is essential. Avoid eating, smoking or drinking in work areas.

## 5. Fire Fighting Measures

<b>Flash point:</b>	Not applicable
<b>Autoignition Temperature:</b>	Not determined
<b>Lower Explosive Limit:</b>	Not applicable
<b>Upper Explosion Limit:</b>	Not applicable
<b>Sensitivity to Impact:</b>	No
<b>Sensitivity to Static Discharge:</b>	No

**Hazardous Combustion Products:** Burning may produce oxides of carbon and nitrogen, unidentified organic compounds in smoke, styrene.

**Extinguishing Media:** Use water spray, carbon dioxide, or dry chemical.

**Fire Fighting Instructions:** Fire involved product may produce toxic thermal decomposition products. Firefighters must wear self-contained breathing apparatus with full face-piece operated in pressure demand or positive-pressure mode. Wear full protective clothing.

## 6. Accidental Release Measures

**Personal Protection:** If remediation of a spill will create dust, wear protective clothing to prevent contact with eyes and skin. Wear approved NIOSH dust mask with N95 efficiency.

**Environmental Precautions:** Small spills are not expected to have any environmental impact but care should be taken to collect as much of the spilled material as possible.

**Cleanup Procedures:** Use methods of clean up that will not create nuisance dust. If this is not possible, use protective equipment mentioned above.

Place contaminated particulate into appropriate containers for disposal. Recycling of spilled material is possible if clean and uncontaminated.

## 7. Handling and Storage

**Handling Procedures:** Use handling methods that avoid the generation of nuisance dust. Keep containers closed when not in use. Follow safe work procedures and wear appropriate personal protective equipment.

**Storage:** Store product in dry, ventilated areas.

## 8. Exposure Controls, Personal Protection

**Engineering Controls:** If used indoors, use general or local exhaust to maintain the concentration in the atmosphere below the exposure limits stated in Section 2.

**Respiratory Protection:** Use a NIOSH approved N95 particulate respirator.

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**Skin Protection:** No recommendation unless worker is subject to irritation from organic particulate. In those cases, wear sufficient protective equipment to prevent contact with skin.

**Eye and Face Protection:** Wear protective eyeglasses with side shields.

**Other:** Eye wash station should be located near work area.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Coloured amorphous solid	<b>Melting Point:</b>	Not determined
<b>Odour:</b>	Odourless	<b>Boiling Point:</b>	Not applicable
<b>pH:</b>	Not applicable.	<b>Freezing Point:</b>	Not available.
<b>Vapour Pressure:</b>	Not applicable	<b>Relative Density:</b>	1.6-1.8 (water = 1)
<b>Solubility:</b>	Insoluble	<b>Partition Coefficient:</b>	No data
<b>Vapour Density:</b>	Not applicable	<b>Evaporation Rate:</b>	Not available.

## 10. Stability and Reactivity

**Chemical Stability:** This product is stable under normal use conditions.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Incompatibility:** Contact with strong acids or bases may change or damage the products surface properties.

**Hazardous Decomposition Products:** Decomposition may produce oxides of carbon and nitrogen, unidentified organic compounds in smoke, styrene.

## 11. Toxicological Information

<b>Acute Exposure (LD<sub>50</sub>):</b>	No data
<b>Acute Exposure (LC<sub>50</sub>):</b>	No data
<b>Chronic Exposure:</b>	See Section 3.
<b>Exposure Limits:</b>	See Section 2.
<b>Irritancy:</b>	See Section 3.
<b>Sensitization:</b>	See Section 3.
<b>Neurotoxicity:</b>	No data
<b>Carcinogenicity:</b>	No data
<b>Teratogenicity:</b>	No data
<b>Reproductive Toxicity:</b>	No data
<b>Mutagenicity:</b>	No data
<b>Synergistic Products:</b>	None known

## 12. Ecological Information

**Environmental Toxicity:** No data available.

**Biodegradability:** No data available.

## 13. Disposal Considerations

Review federal, provincial or state, and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration may be acceptable.

## 14. Transport Information

**Canadian Transportation of Dangerous Goods Regulations:** Not regulated

**International Air Transport Association (IATA):** Not regulated

**International Maritime Organization (IMO):** Not regulated

## 15. Regulatory Information

### CANADIAN FEDERAL REGULATIONS:

**CEPA, DOMESTIC SUBSTANCES LIST:** Listed

**WHMIS CLASSIFICATION:** Not controlled

## 16. Other Information

**Preparation Date:** June 22, 2007

**Prepared by:** Kel-Ex Agencies Ltd., P.O. Box 52201, Lynnmour RPO, North Vancouver, BC, Canada, V7J 3V5

Comments: This Material Safety Data Sheet was prepared using information provided by Fama Industries, and CCINFO.

**Revisions:** None