



MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 05/08/2000

MSDS No: PLSF30009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured For:
The Easthill Group DbA/The Eastwood Company
263 Shoemaker Road
Pottstown, PA 19464
USA & Canada: 800-345-1178
Outside USA: 610-323-2200
Emergency contact: Chem-Trec: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt. %	CAS Registry #
Titanium dioxide	1 - 10	13463-67-7
Triglycidyl isocyanurate	1 - 5	2451 -62-9
Barium Sulphate	20 - 30	7727-43-7
Carbon black	0.1 - 1	1333-86-4

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	Supplier
Titanium dioxide	15 mg/m3	10 mg/m3	
Triglycidyl isocyanurate		.05 mg/m3	.05 mg/m3
Barium Sulphate	5 mg/m3 Skin Sensitizer	10 mg/m3	200 0757R04F
Carbon black	3.5 mg/m3	3.5 mg/m3	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Finely divided powder.

IMMEDIATE CONCERNS:

Do not breath dust , may cause respiratory tract irritation . May cause skin or eye irritation .
Do not swallow . Do not generate dust clouds



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POTENTIAL HEALTH EFFECTS**EYES:**

Mildly irritating to the eyes.

SKIN:

Is not expected to cause skin irritation.

INGESTION:

Not hazardous in normal industrial use.

INHALATION:

Refer to ingredients individual exposures limits. If none are listed powder coatings should be considered a nuisance dust with the following exposure limits: OSHA PEL - 5mg/m³ (respirable particulates) , 15mg/m³ (total particulates) ; ACGIH TLV - 10mg/m³ (total Particulates)

ROUTES OF ENTRY:

Eyes, Inhalation.

TARGET ORGANS:

Eyes, Respiratory tract.

4. FIRST AID MEASURES**EYES:**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.

SKIN:

Wash with soap and water.

INGESTION:

Obtain medical attention . Rinse mouth with water .Drink one cup of water . If vomiting occurs drink more water . Never give anything by mouth to anyone unconscious.

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist seek medical attention.

5. FIRE FIGHTING MEASURESFlammable Limits: LEL 30 - 70 g/m³**FLAMMABLE CLASS:**

While in bulk storage the HMIS / NFPA flammability rating is 1. When powder coatings are suspended in air above their LEL their rating is 4.



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EXTINGUISHING MEDIA:

Foam, water spray or fog, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide , carbon monoxide , etc..

EXPLOSION HAZARDS:

As with all dusts , when suspended in air powder coatings may be ignited by an open flame or electrical spark .

FIRE FIGHTING PROCEDURES:

Fire fighters exposed to the by products of combustion should be equipped with approved NIOSH Breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Vacuum or sweep up material and place in a disposal container. Use only an explosion proof vacuum and non sparking tools . Do not generate a dust cloud .

LARGE SPILL:

As with small spill.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Keep dusting to a minimal.

HANDLING:

Wash hands with soap and water after handling . Especially before eating or smoking.

STORAGE:

Store in a cool dry place below (80) F .

SHELF LIFE:

6 Months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION

EYES AND FACE:

As a minimum safety glasses should be worn .Facilities storing or utilizing this material should be equipped with an eyewash facility .



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RESPIRATORY:

Avoid breathing the dust. Use a NIOSH/MSHA approved respirator. Consult your respirator manufacturer for correct equipment.

PROTECTIVE CLOTHING:

Wear protective clothing and suitable impervious gloves.

WORK HYGIENIC PRACTICES:

Maintain a clean working environment. Keep dust levels to a minimum. Wash thoroughly before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: None

Appearance: Powder

Color: Varies

pH: None

Vapor Pressure: None

Boiling Point: None

Freezing Point: None

Melting Point: >120°C

Solubility in Water: Insoluble

Evaporation Rate: None

Specific Gravity: 1.2 to 1.8 (water=1)

Viscosity: None

Molecular Weight: Not Available

(VOC): .2 to 1

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY:

Stable

POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

High Temperatures



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HAZARDOUS DECOMPOSITION:

Smoke, soot, and toxic / irritating fumes (i.e. Carbon dioxide, carbon monoxide, etc.)

INCOMPATIBLE MATERIALS:

Oxidizers, acids.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Dust may be slightly irritating to eyes and respiratory tracts.

CARCINOGENICITY:

IARC: None

NTP: None

OSHA: None

GENERAL COMMENTS:

Carbon Black

Inhalation Studies in rats have shown increased rates of benign and malignant lung tumors. Solvent extracts of carbon black have been shown to be carcinogenic to the skin of mice. However, epidemiological studies of carbon black workers in the United States show no increased incidence of cancer deaths compared to the general population. Dust can irritate eyes and skin. Triglycidyl isocyanurate

Over exposure to this product may cause eye and skin irritation and skin sensitization in susceptible individuals. Tgic gives a positive response in the Ames, mouse lymphoma and mouse spermatogonial (inhalation) assays and a negative response in the following assays: oral spermatocyte aberration (mouse); oral dominant lethal (TIF-AG and ICR); inhalation dominant lethal (CD-1); and intraperitoneal spot test (mouse). Studies in a powder coating containing 4-6% Tgic prepared by normal commercial production techniques gave the following results: Not irritating to the eyes and skin, not sensitizing (skin); Ames test: negative; chromosomal aberrations (mouse) negative (oral) at less than or equal to 5000 mg/kg; negative (inhalation) less than or equal to 2000mg/kg. The manufacturer of Tgic currently recommends a TLV-STEL of .08 mg/m3. A valid industrial hygiene method for determining Tgic now exists. It is recommended that workers exposed to Tgic containing powders wear respiratory protection and other personal protective equipment as described in section 8.

Oral LD50 Rat 1,090 mg/kg

Rat - male < 100 mg/kg

Rat - female 255 mg/kg

Dermal LD50 Rat >2,000 mg/kg

Inhalation LD50 Mouse 200 mg/m3 / 4- hours

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:

Not Available



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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Dispose in accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

Label: None

Other Shipping Information: Non Regulated

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: No Chronic: Yes

311/312 Hazard Categories: None

313 Reportable Ingredients: None

Title III Notes: None

CARCINOGEN:

None

CANADA

CANADIAN ENVIRONMENTAL PROTECTION ACT:

Not Regulated

MEXICO

MEXICO:

Not Regulated

16. OTHER INFORMATION

NFPA CODES

Fire: 1 Health: 1 Reactivity: 0 Special: 0

HMIS CODES

Fire: 1 Health: 1 Reactivity: 0 Protection: 0



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