



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: POLYESTER TGIC FREE
Product Code: PEP
Manufacturer: Fam Powder Coating Ltd.
Address: 7171 Torbram Road, Unit# 46-47, Mississauga, ON. L4T 3W4, Canada
Information Phone: Tel: +1-905-956-3424 Fax: +1-416-860-3425

2. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Finely divided powder

IMMEDIATE CONCERNS: Do not breathe dust, may cause respiratory tract irritation. May cause skin or eye irritation. Do not swallow. Do not generate dust clouds.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms Void

Signal word Warning

Hazard statements

May form combustible dust concentrations in air.

POTENTIAL HEALTH EFFECTS

EYES: Mildly irritating to the eyes.

SKIN: Is not expected to cause skin irritation.

INGESTION: Not hazardous in normal industrial use. Wash hands before eating drinking or smoking.

INHALATION: Temporary discomfort to the upper respiratory tract may occur due to mechanical irritation.

ROUTES OF ENTRY: Eyes, inhalation.

TARGET ORGANS: Eyes, respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture consisting of the following components with harmless additives.

. Hazardous ingredients:		
13463-67-7	titanium dioxide	10-25%
21645-51-2	aluminium hydroxide	10-25%
7727-43-7	barium sulphate, natural	2.5-10%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

. Description of first aid measures

. General information No special measures required.

. After inhalation Supply fresh air; consult doctor in case of symptoms.

. After skin contact Instantly wash with water and soap and rinse thoroughly.



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- . **After eye contact** Rinse opened eye for several minutes under running water.
- . **After swallowing** In case of persistent symptoms consult doctor.
- . **Information for doctor**
- . **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- . **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Advice for firefighters

Protective equipment: No special measures required

Special hazards arising from the substance or mixture

No further relevant information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Wear protective equipment. Keep unprotected persons away.
- Avoid causing dust.

Environmental precautions: Do not allow product to reach sewage system or water bodies.

Methods and material for containment and cleaning up: Collect mechanically.

Reference to other sections No dangerous materials are released.

- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

Protective Action Criteria for Chemicals

. PAC-1:		
13463-67-7	aluminium oxide	15 mg/m ³
112926-00-8	Silicon dioxide	18 mg/m ³
13463-67-7	titanium dioxide	30 mg/m ³
21645-51-2	aluminium hydroxide	8.7 mg/m ³
7727-43-7	barium sulphate, natural	15 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
1314-23-4	zirconium dioxide	14 mg/m ³
471-34-1	calcium carbonate	45 mg/m ³
14808-60-7	quartz (SiO ₂)	0.075 mg/m ³
111-42-2	2,2'-iminodiethanol	3 mg/m ³
. PAC-2:		
13463-67-7	aluminium oxide	170 mg/m ³
112926-00-8	Silicon dioxide	200 mg/m ³
13463-67-7	titanium dioxide	330 mg/m ³
21645-51-2	aluminium hydroxide	73 mg/m ³
7727-43-7	barium sulphate, natural	170 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
1314-23-4	zirconium dioxide	110 mg/m ³

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471-34-1	calcium carbonate	210mg/m ³
14808-60-7	quartz (SiO ₂)	33 mg/m
111-42-2	2,2'-iminodiethanol	28 mg/m ³
. PAC-3:		
13463-67-7	aluminium oxide	990 mg/m ³
112926-00-8	Silicon dioxide	1200 mg/m ³
13463-67-7	titanium dioxide	2000 mg/m ³
21645-51-2	aluminium hydroxide	440 mg/m ³
7727-43-7	barium sulphate, natural	990 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	4500mg/m ³
1314-23-4	zirconium dioxide	680 mg/m ³
471-34-1	calcium carbonate	1300mg/m ³
14808-60-7	quartz (SiO ₂)	200 mg/m ³
111-42-2	2,2'-iminodiethanol	130 mg/m ³

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

No special measures required.

Store in cool, dry place in tightly closed containers.

Prevent formation of dust.

Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

Dust can combine with air to form an explosive mixture.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

- Store only in the original container.
- Static charges may build up in the powder

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

None.

Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Persons with a history of respiratory problems or allergic responses should only be exposed to, or handle, this product under appropriate medical supervision.

Exposure Controls:

Avoid the inhalation of dusts. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of dusts below the relevant occupational exposure limit, suitable respiratory protective equipment should be worn (see 'Occupational Exposure Controls' below).

Additional information about design of technical systems: No further data; see item 7.



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Components with critical values that require monitoring at the workplace:

13463-67-7 titanium dioxide

TLV (U.S.A)

10 mg/m³

*inhalable fraction ; E

EL (Canada)

10* 3** mg/m³

*total dust **respirable fraction; IARC 2B

REL (U.S.A)

See Pocket Guide App. A

PEL (U.S.A)

15* mg/m³

*total dust **respirable fraction

LMPE (Mexico)

10 mg/m³

A4

EV (Canada)

10 mg/m³

*total dust **respirable fraction

7727-43-7 barium sulphate, natural

LMPE (Mexico)

10 mg/m³

TLV (U.S.A)

5 mg/m³

*inhalable fraction ; E

EL (Canada)

10* 3** mg/m³

*total dust **respirable fraction

REL (U.S.A)

10* 5** mg/m³

*total dust **respirable fraction



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PEL (U.S.A)

15* 5** mg/m³

*total dust **respirable fraction

EV (Canada)

10 mg/m³

*total dust

21645-51-2 aluminium hydroxide

TLV (U.S.A)

1mg/m³

as Al as respirable fraction

EL (Canada)

10 mg/m³

REL (U.S.A)

2 mg/m³

as Al

Occupational Exposure Controls

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations

Respiratory Protection:

Air-fed respiratory protective equipment (to EN 149) should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational Exposure Limit Values and engineering controls and methods cannot reasonably be improved.

Hand Protection:

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Hand protection should conform to EN 388. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye Protection:

Eye protection (to EN 166/170) designed to protect against exposure to dusts should be worn when there is a likelihood of exposure.

Skin Protection:

Cotton or cotton/synthetic overalls or coveralls compliant with EN 340 are normally suitable. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder is avoided. Regular skin inspection of users of this product is recommended.

Always wash your hands before eating, smoking or using the toilet.

Environmental exposure control: See Section 12 for detailed information



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	fine powder	
Specific gravity:	1.6±0.05	method: [Displacement]
Minimum explosive concentration (LEL)	20-70 g/m ³	method:
Solubility in water:	insoluble	
Minimum ignition temperature	400 °C	method:
Minimum ignition energy	5-20 mJ	method:

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	In case of fire: CO, CO ₂ , NO _x

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effect known.
- . **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic Categories

<i>NTP (National Toxicology Program)</i>		
14808-60-7	quartz (SiO ₂)	K
<i>OSHA-Ca (Occupational Safety & Health Administration)</i>		
None of the ingredients is listed.		
<i>IARC (International Agency for Research on Cancer)</i>		
13463-67-7	titanium dioxide	2B
112926-00-8	Silicon dioxide	3
7631-86-9	silicon dioxide, chemically prepared	3
14808-60-7	quartz (SiO ₂)	1
111-42-2	2,2'-iminodiethanol	2B



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12. ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters.

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Bio accumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

- Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment

➤ **PBT:** Not applicable.

➤ **vPvB:** Not applicable.

Other adverse effects No further relevant information available.

13. Disposal considerations

Waste treatment methods

- Recommendation Smaller quantities can be disposed with household garbage.

Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Transport within the user's premises

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

External Transport

This product is not classified as dangerous for carriage.

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

UN-Number. ADR N/A.

UN proper shipping name N/A.

Packing group. ADR, IMDG, IATA N/A.

Environmental hazards:



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Marine pollutant: No.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

U.S Surface Freight Class: 55

Bulk Freight Class: 55

Label: None

Other shipping information: not regulated

15. REGULARITY INFORMATION

. SARA (Superfund Amendments and Reauthorization Act) :

Section 355 (Extremely hazardous substances) :	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
7727-43-7	barium sulphate, natural
1344-28-1	aluminium oxide
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	

. Proposition 65:

Chemicals known to cause cancer	
13463-67-7	titanium dioxide
Chemicals known to cause reproductive toxicity for females	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

. Cancerogenity categories

. EPA (Environmental Protection Agency)		
7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
TLV (Threshold Limit Value established by ACGIH)		
13463-67-7	titanium dioxide	A4
1332-58-7	kaolin	A4
1344-28-1	aluminium oxide	A4
1314-23-4	zirconium dioxide	A4
14808-60-7	quartz (SiO ₂)	A2
111-42-2	2,2'-iminodiethanol	A3
NIOSH-Ca (National Institute for Occupational Safety and Health)		
13463-67-7	titanium dioxide	
14808-60-7	quartz (SiO ₂)	

16. OTHER INFORMATION

NEPA CODES



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

HMIS CODES:

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

MANUFACTURER DISCLAIMER:

All the information herein is to the best of our knowledge true and accurate. However, since we have no control on how our products are shipped. Stored, handled or used we make no guarantee of results and will not be held liable for any damages incurred. All chemicals should be used with caution and we make no guarantee that others hazards may not be present. It is the responsibility of the user to ensure all local, state and federal regulations are complied with.