

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME : **Pure Polyester&epoxy polyester**

PRODUCTS CODE : EXAMPLE:-GCP5021SG, GCH1015 T(ANF),

PRODUCTS NAME : RAL5021, RAL1015,

MANUFACTURERS NAME : **GENESIS COATING**

ADDRESS : **3824, New industrial Area, Riyadh – 14333-6514, SAUDI ARABIA**

Tel : +966 11 4984545

Fax: +966 11 4994040

2. HAZARDS IDENTIFICATION

Danger classification :- Not applicable

Route of invasion :- Inhalation, ingestion, skin contact.

Health hazards :- Based on the composition and performed toxicity studies with the product, the preparation can be considered as an inert dust. It is not harmful.

Environmental hazards :- The preparation is not classified as dangerous for the environment. Tests and long term use of powder coatings have, in general, shown no specific risk. If powder coatings are applied and stove according to the recommendations, emissions will be within the legal limits. The extract of a typical powder coating with rainwater shows that a deposit will not affect ground or surface water substantially.

Flammable and explosive hazards:- No flash point, ignition temperature is higher than 400°C. Precautions should be taken to prevent the formation of dust in concentrations above flammable, explosive or occupational exposure limits.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component name</u>	<u>CAS No.</u>	<u>% By Weight</u>
TGIC	2451-62-9	1 - 5
Crystalline Silica	14808-60-7	0.1 – 1.0
Calcium Carbonate	1317-65-3	10 – 30
Calcium Black	1333-86-4	0.1 – 1.0
Chrome Antimony titanium buff Rutile	68186-90-3	0.5 – 1.5
Titanium Dioxide	13463-67-7	20 – 25

4. FIRST AID MEASURES

Skin contact : Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Eye contact : Contact lenses should be removed. Flush copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.

Inhalation : Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.

Ingestion : If accidentally swallowed, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability of the product : Finely divided powders are potentially explosive when suspended in air, precautions should be taken to prevent the formation of dust in concentration above flammable, explosive or exposure limits.

Extinguishing media : Use dry chemicals, CO₂, water spray or foam. If aluminum or zinc appears in section 2, use dry chemicals only. Do not use water jet.

Special exposure hazards : Promptly isolate the scene by removing all persons from vicinity of the incident if there is a fire. No action should be taken without suitable training.

Hazardous combustion products: decomposition products may contain: carbon oxides, Nitrogen Oxides, Sulphur Oxides. Metal Oxides.

6. ACCIDENTAL RELEASE MEASURES

Large spill & leak : Move containers from spill area. Prevent entry into sewers, water courses or confined areas. Avoid creating dusty conditions, use water spray to reduce dust. Eliminate all source of ignition. Use appropriate tools to put spilled solid in an identified waste disposal container. Dispose of according to local and regional authority requirements.

Small Spill & leak : Move containers from spill area. Use appropriate tools to put spilled solid in an identified waste disposal container. Dispose of according to local and regional authority requirements.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

7. HANDLING & STORAGE

Handling

Precautions should be taken to prevent the formation of dust in concentrations above flammable, explosive or occupational exposure limits. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or ignition sources.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of conducting type.

Avoid skin and eye contact. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Keep containers tightly closed. Isolate from sources of heat, sparks and open flame.

Smoking, eating and drinking should be forbidden in application area.

Comply with health and safety at work laws.

Always keep in containers made of same material as the original one.

For personal protection see section 8.

Storage

Observe label precautions. Store in a dry well-ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. The equipment and container for cleaning accidental release should be placed in the storage area.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Exposure controls

Component name

TGIC

CAS No.

2451-62-9

Exposure Guidelines

TLV : 0.05 mg/m³

Crystalline Silica	14808-60-7	TLV : 0.05 mg/m ³ (ACGIH) PEL : 10 mg/m ³ (% SiO ₂ +2) (OSHA)
Calcium Carbonate	1317-65-3	TLV : 10 mg/m ³ PEL : 15 mg/m ³
Calcium Black	1333-86-4	TLV : 3.5 mg/m ³ PEL : 3.5 mg/m ³
Chrome Antimony titanium buff Rutile	68186-90-3	TLV : 0.5 mg/m ³ PEL : 0.5 mg/m ³
Titanium Dioxide	13463-67-7	TLV : 10 mg/m ³ PEL : 15 mg/m ³

Personal Protection

- Eye protection : Safety eyewear should be used when there is a likelihood of exposure.
- Skin protection : Personnel should wear protective clothing and all parts of the body should be washed after contact. Care should be taken in the selection of protective clothing, to ensure that inflammation or irritation of the skin at neck and wrists through contact with the powder is avoided.
- Hand protection : For prolonged or repeated contact, use general industrial gloves. Suitable materials include lightweight vinyl or nitrile rubber gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Breakthrough time of gloves not applicable to powder coatings. Barrier creams may help to protect exposed areas of the skin, they should however not be applied once exposure has occurred.
- Other protection : It is strictly prohibited to smoke, eat and drink in working area. Avoid drinking any beverage containing alcohol before handling. Take shower and change clothes after working. Have routine health inspection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Solid powder
Melting Point(°C)	: Not Available
Boiling Point(°C)	: Not Available
Relative density 23°C	: 1.2 -1.9 g/m ³
Solubility in water	: Insoluble in cold or hot water.
Softening Point	: >50°C
pH	: Neutral
VOC	: 0 (g/l)

10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage and handling conditions.
Incompatible substance	: Strong oxidising material.
Conditions to avoid	: Heat, ignition and direct sun-light.
Polymerization	: Not applicable.
Decomposition substance	: When exposed to high temperatures hazardous decomposition products may be produced, such as carbon monoxide and dioxide, nitrogen oxides and smoke.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not available. Animal tests and long term use of powder coatings containing no dangerous substances have shown no specific risk.

Irritation: Powder coatings can cause localised skin irritation in folds of the skin or in contact with tight clothing.

12. ECOLOGICAL INFORMATION

Ecological toxicity : Not available

Biodegradation : Not available

Non-biodegradation : Not available

Other hazardous effect : The product should not be allowed to enter drains or water courses. The preparation is not classified as dangerous for the environment. Tests and long term use of powder coatings have, in general, shown no specific risk.

If powder coatings are applied and stoved according to the recommendations, emissions will be within the legal limits. The extract of a typical powder coating with rainwater shows that a deposit will not affect ground or surface water substantially.

13. DISPOSAL CONSIDERATIONS

Waste disposal : Disposal should be in accordance with applicable regional, national and local laws and regulations

14. TRANSPORT INFORMATION

DOT : Not a DOT controlled material.

IMDG : Not controlled material.

IATA : Not controlled material.

15. REGULATORY INFORMATION

SARA 313 : This product contains the following chemicals subjected to the reporting requirements of section 313 of the emergency planning and community Right-to-know Act of 1986 and to 40 CFR 372:

Antimony and compound

Chromium III compounds

TSCA : All components of this product are included on the TSCA chemical inventory.

.....

To the best of my knowledge, the information contains herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazard and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.