Safety Data Sheet
Polyester TGIC Metallic

SECTION 1. IDENTIFICATION

Product Identifier	**Polyester TGIC Metallic**
Other Means of Identification	*Not Applicable*
Recommended Use	Coating powder. Paints, paint-related materials.
Restrictions on Use	*Not Available*
Initial Supplier Identifier	**Emerald Coatings** 5914 Wellington Rd., 123 Palmerston, ON, Canada, N0G 2P0 Telephone: 1 (855) 317-4867
Emergency Telephone Number	Toll Free: 1-855-317-4867 (8am – 4pm EST)

SECTION 2. HAZARD IDENTIFICATION

GHS Classification	**EYE DAMAGE/IRRITATION – CATEGORY 1** **SKIN SENSITIZATION – CATEGORY 1** **GERM CELL MUTAGENICITY – CATEGORY 1B** **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE – CATEGORY 2**
Label Elements **Pictograms**	
Signal Word	**DANGER**
Hazard Statements	H317 – May cause an allergic skin reaction. H318 – Causes serious eye damage. H340 – May cause genetic defects. H373 – May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements	
Prevention:	*Not Applicable*
Response:	*Not Applicable*
Storage:	*Not Applicable*
Disposal:	*Not Applicable*
Other Hazards	**May form combustible dust concentrations in air.**
NOTES	*Not Applicable*

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration*	Common name / Synonyms
Titanium Dioxide	13463-67-7	10 – 30%	*Not Applicable*
Aluminium Hydroxide	21645-51-2	10 – 30%	*Not Applicable*
Barium Sulphate, natural	7727-43-7	10 – 30%	*Not Applicable*
1,3,5-Tris(oxiranylmethyl)-1,3,5-Triazine-2,4,5(1H,3H,5H)-Trione	2451-62-9	3 – 10%	*Not Applicable*
Aluminum Powder (Stabilized)	7429-90-5	3 – 7%	*Not Applicable*
Mica	12001-26-2	3 – 7%	*Not Applicable*
**Silica	7631-86-9	3 – 7%	*Not Applicable*
**Tin Oxide	18282-10-5	3 – 7%	*Not Applicable*
**Calcium-Aluminum Borosilicate	65997-17-3	3 – 7%	*Not Applicable*
**Iron Oxide	1309-37-1	3 – 7%	*Not Applicable*
**Fluorphlogopite	12003-38-2	3 – 7%	*Not Applicable*

Notes	*Actual concentration withheld to protect confidentiality. Concentration ranges as per Health Canada's prescribed ranges. **One or more of the following ingredients (pigments) may be present in the mixture. However, the ingredients do not contribute to health hazard classification under the GHS or WHMIS,

SECTION 4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air. If breathing is difficult, seek medical advice.
Skin Contact	Remove contaminated clothing and shoes. Rinse with soap and water. Do not use solvents or thinners. Seek medical advice.
Eye Contact	Immediately flush contaminated eye(s) with lukewarm, gently running water for at least 15 minutes while holding the eyelid(s) open. Take care not to rinse contaminated water into a non-affected eye. Remove contact lenses if applicable and easy to do so. Continue rinsing. Seek medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Seek medical advice immediately.
Most Important Symptoms and Effects, Acute and Delayed	Acute: INHALATION: May be irritating to nose, throat, lungs when present above concentration limits. SKIN CONTACT: *Not Available* EYE CONTACT: May cause redness, conjunctivitis and/or tearing. INGESTION: Gastrointestinal discomfort. Chronic: *Not available*
Immediate Medical Attention and Special Treatment	Treat symptomatically. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Use dry chemical powder, CO2, water, alcohol-resistant foam.
Unsuitable Extinguishing Media	*Not Available*
Hazardous Combustion Products	*Not Available*
Specific Hazards Arising from the Product	Dusts may form explosive mixtures with air.

Special Protective Equipment and Precautions for Fire-Fighters	Wear SCBA for firefighting if necessary. Use water to keep fire-exposed containers cool. Move containers away from fire is safe to do so.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Evacuate unnecessary personnel from spill area. Wear appropriate personal protective equipment (See Section 8). Move containers from spill area. Do not generate or breathe dusts.
Methods for Containment and Cleaning Up	Implement spill control plan. Sweep up material and dispose of properly. Avoid breathing any dust that might be generated. Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Close container after each use. Do not transfer contents to unlabeled containers. Wash thoroughly after handling and before eating or smoking. Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits. Keep away from open flames, hot surfaces and sources of ignition. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Build up of fine material should be cleaned using gentle sweeping or vacuuming in accordance with best practices. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.
Conditions for Safe Storage	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	**ACGIH® TLV®**	**OSHA PEL**
Titanium Dioxide	10 mg/m^3 (TWA)	15 mg/m^3 (TWA)
Aluminium Hydroxide	1 mg/m^3 (TWA)	*Not Available*
Barium Sulphate, natural	5 mg/m^3 (TWA)	5 – 15 mg/m^3 (TWA)
1,3,5-Tris(oxiranylmethyl)-1,3,5-Triazine-2,4,5(1H,3H,5H)-Trione	0.05 mg/m^3 (TWA)	*Not Available*
Aluminum Powder (Stabilized)	1 mg/m^3 (TWA)	5 – 15 mg/m^3 (TWA)
Mica	3 mg/m^3 (TWA)	20 ppm (TWA)
Notes	*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. STEL = Short-term exposure limit; TWA = Time weighted average; TLV = Threshold limit value; REL = Recommended exposure limit	

Appropriate Engineering Controls	Use general or local exhaust ventilation to maintain exposure below the exposure limits. Ensure proper ventilation if dust, mist, vapour is created during use. Use explosion-proof ventilation equipment.

Individual Protection Measures	
Eye/Face Protection	Eye protection is required in industrial settings. The wearing of contact lenses is not recommended.
Skin Protection	Wear chemical-resistant impervious gloves fabricated from butyl rubber. Avoid use of leather and wool.
Respiratory Protection	Not normally required for most uses. If use produces dusts and risk assessment indicates it is necessary, use an approved NIOSH half-face or full-face respirator.
Other	Have a safety shower and eye wash station readily available in the immediate work area. Use proper industrial hygiene practices. Remove contaminated clothing and do not allow contaminated clothing out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid Powder variable colour	**Relative Density (Water = 1)**	1.53
Odour	'Characteristic'	**Solubility in Water**	Insoluble
Odour Threshold	*Not Established*	**Solubility in Other Liquids**	*Not Available*
pH	*Not Available*	**Partition Coefficient, n-Octanol / Water**	*Not Available*
Melting Point and Freezing Point	>50°C	**Auto-ignition Temperature**	400°C
Initial Boiling Point and Boiling Range	*Not Applicable*	**Decomposition Temperature**	*Not Available*
Flash Point	None to 100°C	**Viscosity**	*Not Available*
Evaporation Rate	*Not Available*	**Flammability (solid, gas)**	*Not Available*
Vapour Density (air = 1)	*Not Available*	**Upper and Lower Flammability or Explosive Limit**	*Not Available*
Vapour Pressure	*Not Available*	**Sensitivity to Static/Impact**	Not sensitive

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical Stability	Stable under normal storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Avoid generation of dusts and high temperatures.
Incompatible Materials	Keep away from oxidizing agents, strong acids and bases.
Hazardous Decomposition Products	None under normal conditions. Upon thermal decomposition the product may liberate oxides of carbon, nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

__X__ Inhalation __X__ Skin contact __X__ Eye contact __X__ Ingestion

Acute Toxicity	
LC50 (inhalation)	0.309 – 650 mg/L (rat 4h)
LD50 (oral)	188 – 1450 mg/kg (Rat)
LD50 (dermal)	>2000 mg/kg (Rabbit)

Notes	
Skin Corrosion / Irritation	May be mildly irritating.
Serious Eye Damage / Irritation	May be mildly irritating.
Inhalation	May be slightly irritating to nose and throat (Mechanical).
STOT (Specific Target Organ Toxicity) - Single Exposure	Not expected.
Aspiration Hazard	Not reported.
STOT (Specific Target Organ Toxicity) - Repeated Exposure	May damage respiratory damage.
Respiratory and/or Skin Sensitization	Skin sensitization.
Carcinogenicity	IARC reports evidence for classification as human carcinogen: Titanium dioxide, silicon dioxide, diiron trioxide, mica.
Reproductive Toxicity	
Development of Offspring	Not reported.
Sexual Function and Fertility	Not reported.
Effects on or via Lactation	Not reported.
Germ Cell Mutagenicity	Can cause inheritable effects.
Interactive Effects	Not reported.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Unknown ecotoxicity for mixture.		
	Ingredient	**Species**	**LC/EC$_{50}$**
	Not Available	*Not Available*	*Not Available*
Persistence and Degradability	*Not Available*		
Bioaccumulative Potential	*Not Available*		
Mobility in Soil	*Not Available*		
Other Adverse Effects	*Not Available*		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	Canadian Environmental Protection Act: All ingredients are listed in the DSL or are not required. Dispose of in accordance with all federal, provincial/state, and local regulations. Consult with your local supplier for additional information. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
Canadian TDG Regulations*					
49 CFR/DOT*					
IATA Regulations*					
IMDG Code*					
*Not Regulated for Transport.					

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations	Canadian Environmental Protection Act (CEPA): All components of this product are on the Canadian DSL. United States Inventory (TSCA): All components are listed or exempt.

SECTION 16. OTHER INFORMATION

Date of Creation	March 1, 2019
Date of Latest Revision	March 14, 2019
Notes	Health Material Information System (HMIS): Health: 3 Flammability: 1 Reactivity: 1 Physical Hazards: E HMIS Ratings: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic Effects.
Disclaimer	This Safety Data Sheet (SDS) was prepared by iHazmat Regulatory Ltd., (www.iHazmat.com) using information and classifications provided by Emerald Coatings. All information in this SDS is offered for your consideration and guidance when working with this product and is accurate to the best of our knowledge. No guarantee can be made that the hazards described herein are the only hazards that exist.

SDS compliant with WHMIS 2015