


Safety Data Sheet Hybrids

SECTION 1. IDENTIFICATION

Product Identifier	Hybrids
Other Means of Identification	<i>Not Applicable</i>
Recommended Use	Coatings. Paints. Painting-related materials.
Restrictions on Use	<i>Not Available</i>
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

SECTION 2. HAZARD IDENTIFICATION

GHS Classification	SERIOUS EYE DAMAGE/IRRITATION – CATEGORY 2A
Label Elements Pictograms	
Signal Word	WARNING
Hazard Statements	H319 – Causes serious eye irritation.
Precautionary Statements	
Prevention:	P264 – Wash skin thoroughly after handling. P280 – Wear protective gloves/eye protection/face protection.
Response:	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P337 + P313 – If eye irritation persists: Get medical advice/attention.
Storage:	<i>Not Applicable</i>
Disposal:	P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.
Other Hazards	May form combustible dust concentrations in air.
NOTES	<i>Not Applicable</i>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration*	Common name / Synonyms
Poly(Bisphenol A-co-epichlorohydrin) glycidyl end-capped	25036-25-3	10 – 40%	<i>Not Applicable</i>
**Copper	7440-50-8	1 – 5%	<i>Not Applicable</i>
**Zinc	7440-66-6	1 – 5%	<i>Not Applicable</i>
**1,2,4-Benzenetricarboxylic Anhydride	522-30-7	0.1 – 1%	<i>Not Applicable</i>
**Aluminium	7429-90-5	1 – 5%	<i>Not Applicable</i>

Notes	*Actual concentration withheld to protect confidentiality. **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,
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SECTION 4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air. If breathing is difficult, seek medical attention.
Skin Contact	Remove contaminated clothing and shoes. Rinse with soap and water. Do not use solvents or thinners. Seek medical attention.
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 attention.
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 attention 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: No known significant effects or hazards. EYE CONTACT: Irritating to the eyes. May cause redness, conjunctivitis, and/or tearing. INGESTION: No known significant effects or hazards. Chronic: <i>Not available</i>
Immediate Medical Attention and Special Treatment	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	
Suitable Extinguishing Media	Use dry chemical, carbon dioxide, water spray (fog) or foam.
Unsuitable Extinguishing Media	Do not use water jet.
Hazardous Combustion Products	May produce oxides of carbon.
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). Do not touch or walk through spilled product. Ventilate area. Stop or reduce leak if safe to do so. Remove all ignition sources. No flares, smoking, or flames in hazard area. Do not breathe dust. Wear respirator if ventilation is inadequate. Prevent product from entering any sewers or waterways. Inform relevant authorities of potential environmental contamination if required.
Methods for Containment and Cleaning Up	Implement spill control plan. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Use general industrial hygiene practices.
Conditions for Safe Storage	Store in a segregated area 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		NIOSH REL	
	Zinc	TWA – 2 mg/m ³	STEL – 10 mg/m ³	TWA – 5 mg/m ³
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. Chemical safety goggles are recommended. 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. Protect skin by use of long-sleeved coveralls.
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.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid (powder).	Relative Density (Water = 1)	1.2 – 1.9
Odour	Odourless	Solubility in Water	Insoluble
Odour Threshold	<i>Not Available</i>	Solubility in Other Liquids	<i>Not Available</i>
pH	<i>Not Available</i>	Partition Coefficient, n-Octanol / Water	<i>Not Available</i>
Melting Point and Freezing Point	<i>Not Available</i>	Auto-ignition Temperature	450°C to 600°C
Initial Boiling Point and Boiling Range	<i>Not Available</i>	Decomposition Temperature	<i>Not Available</i>
Flash Point	None to 100°C	Viscosity	<i>Not Available</i>
Evaporation Rate	<i>Not Available</i>	Flammability (solid, gas)	<i>Not Available</i>
Vapour Density (air = 1)	<i>Not Available</i>	Upper and Lower Flammability or Explosive Limit	Lower – 20g/m ³ Upper – 70g/m ³
Vapour Pressure	<i>Not Available</i>	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.
Hazardous Decomposition Products	None under normal conditions. Upon thermal decomposition the product may liberate oxides of carbon.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation Skin contact Eye contact Ingestion

Acute Toxicity	
LC50 (inhalation)	Dodecanedioic acid - >4.3 mg/L (Rat, 4h)
LD50 (oral)	Dodecanedioic acid - 3038 mg/kg (Rat)
LD50 (dermal)	Dodecanedioic acid - >6000 mg/kg (Rabbit)
Notes	Not expected to be acutely toxic.
Skin Corrosion / Irritation	May be mildly irritating.
Serious Eye Damage / Irritation	Causes serious eye irritation.
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	Not reported.
Respiratory and/or Skin Sensitization	Not expected.
Carcinogenicity	IARC reports inadequate evidence for classification as human carcinogen.
Reproductive Toxicity	
Development of Offspring	Not reported.
Sexual Function and Fertility	Not reported.
Effects on or via Lactation	Not reported.
Germ Cell Mutagenicity	Not expected to be a mutagen.
Interactive Effects	Not reported.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	<i>Not Available</i>		
	Ingredient	Species	LC/EC₅₀
	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>
Persistence and Degradability	<i>Not Available</i>		
Bioaccumulative Potential	<i>Not Available</i>		
Mobility in Soil	<i>Not Available</i>		
Other Adverse Effects	<i>Not Available</i>		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods	Canadian Environmental Protection Act: All ingredients are listed in the DSL. 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.
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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.
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SECTION 16. OTHER INFORMATION

Date of Creation	February 26, 2019
Date of Latest Revision	March 14, 2019
Notes	Health Material Information System (HMIS): Health: 2 Flammability: 0 Reactivity: 0 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**