

**POWDER COATINGS**  
**MATERIAL SAFETY DATA SHEET**  
**FB EPOXY**

<b>SECTION: I PRODUCT INFORMATION</b>				
<b>Suppliers Name</b>	Insoltech NZ Limited	<b>Emergency Telephone</b>	<b>24 Hours</b>	
Address	531 Sth Titirangi Rd. Titirangi. Auckland 0604. Ph: 64-9-817-3779			
Chemical Name	Powder coatings	Trade Name	Fusion Bonded Epoxy Valveguard™	
Chemical family	Pure Epoxy	Formula	FBE	Date: 1/08/2022

<b>SECTION: II HAZARDOUS INGREDIENTS</b>			
Ingredient of Materials	CAS NO	Weight %	REMARKS
Epoxy Resin	25068-38-6	55~65	-
Epoxy curing agent		10~20	Based on an unmodified solid reaction product of liquid epoxy resin and Bisphenol-A.
titanium dioxide	13463-67-7	15~20	-
Barium Sulfate	7727-43-7	5~10	-
Others	-	1~5	-

<b>SECTION: III PHYSICAL DATA</b>			
Physical state	Colored powder	Specific Gravity	1.48
Softening point(°C)	>45°C	Volatile percent by Volume	-
Ignition temperature	>400°C		
Solubility in water	Insoluble		
Bulk density	400~1000Kg/m <sup>3</sup>		

<b>SECTION: IV FIRE AND EXPLOSION HAZARD DATA</b>			
Flashing point(°C)	-	Flammable Limits	-
Extinguishing Media: Recommended: Alcohol resistant CO <sub>2</sub> blanket, Water spray/mist Not to be used high pressure insert gas(e.g. CO <sub>2</sub> ), water jets			
Recommendations: Fire will product dense black smoke containing hazardous product of combustion. Exposure to Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off fire fighting to enter drains or water courses			
Explosion limit of a dust/air mixture: 30~90g/m <sup>3</sup> (Recommended limited value: 10g/m <sup>3</sup> )			

<b>SECTION: V HEALTH HAZARD DATA</b>
Threshold limit value: total inhalable dusts: 10 mg/m <sup>3</sup> for 8hr Respirable dusts: 5 mg/m <sup>3</sup>
Effects of overexposure: Eye contact: causes eye irritation Skin contact: cause localized skin irritation Inhalation: dust may be harmful, if inhaled

<b>SECTION : VI FIRST AID MEASURES</b>
Eye contact: Flush eyes immediately with plenty of water for at least 10 minutes. Seek medical advice.
Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Do not use solvent or thinners
Inhalation: Move into fresh air. Apply artificial respiration and other supportive measures as required.
If needed, seek medical advice.

Ingestion: Do not induce vomiting, see a doctor as soon as possible.

#### **SECTION: VII STABILITY AND REACTIVITY**

Stable under the recommended storage and handling condition.

In a fire, hazardous decomposition products such as smoke, carbon and monoxide, carbon dioxide and oxides of nitrogen may be produced

#### **SECTION: VIII SPILL OR LEAK PROCEDURES**

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel.

Avoid breathing dust.

Refer to productive measures listed section VIII. Contain and collect spillage's with an electrically protected vacuum cleaner or by wet brushing and place in a closed container for disposal in accordance with waste regulations

Do not use dry brush as dust clouds or static can be created. Do not allow to enter drains or watercourse. if the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment agency

#### **SECTION: IX PERSONAL PROTECTION**

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

Personal protection: All personal protective equipment, including respiratory protective equipment used to control exposure to hazardous substances must be selected to meet the requirements of the local regulations.

Respiratory Protection: Air-fed respiratory protective equipment 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 and engineering controls and methods cannot reasonably be improved

Hand protection: where skin exposure may occur, advice should be sought from glove suppliers on appropriate types.

Barrier creams may help to protect exposed area of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye protection: Eye protection designed to protect against exposure to dusts should be worn when where there is a likelihood of exposure

**Skin protection:** Cotton or cotton/synthetic coveralls or coveralls 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.

## **SECTION: X HANDLING AND STORAGE**

### **Handling:**

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

Keep the container tightly closed. Exclude sources of heat and open flame

Avoid the inhalation of dusts.

Smoking, eating and drinking should be prohibited in areas of storage and use.

Always keep in containers made of the same material as supply container.

Good housekeeping standards and regular safe removal of waste materials will minimize the risk of spontaneous combustion and other fire hazards.

The product may charge electrically. Use earthing leads when transferring from one container to another.

Operators should be wear anti-static footwear and clothing and floors should be electrically conductive.

The Manual Handling Operations Regulations may apply to the handling of containers of this product.

Refer to the guide weight indicated on the container when carrying out assessments.

### **Storage:**

Store between 5 and 25°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.

No smoking. Prevent unauthorized access. Containers which are open should be properly resealed and kept upright to prevent leakage.

## **SECTION: XI TOXICOLOGICAL INFORMATION**

Coating powders can cause localized skin irritation in folds of the skin where in contact with tight clothing.

## **SECTION: XII ECOLOGICAL INFORMATION**

Name :	Pyromellitic acid , mono(phenylimidazoline)salt :
	LC50(Brachydanio)

ratio) : >1000mg/l (96h /fish: EC92/69) 54% DOC/ Die Away Test : EC 92/69

The product should not be allowed to spill into drains or water courses or deposited where it can affect ground or surface waters.

#### **SECTION : XIIIDISPOSAL CONSIDERATIONS**

Product: Must not be disposed of together with household garbage. Do not allow product to reach sewage systems

Un-cleaned packaging: Disposal should be done according to official regulations.

#### **SECTION : XIV TRANSPORT INFORMATION**

DOT regulations (Hazard class: Non Regulated)

Maritime transportation IMDG (Marine pollutant: No)

#### **SECTION : XV REGULATORY INFORMATION**

This product is determined as not being dangerous according to the requirements of the Chemicals (Hazard information and Packaging) Regulations.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.

#### **SECTION : XVI OTHER INFORMATION**

The information in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.