

# HEALTH AND SAFETY

## PLASMET Z-GALV BASE

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Plasmets Z-Galv Base  
Company Name: Corrocoat Limited  
Company Address: Forster Street, Leeds, West Yorkshire LS10 1PW  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Solvent borne modified epoxy resin coating.  
Hazardous Components:

| <u>Name</u>             | <u>Concentration</u> | <u>CAS N°</u> | <u>Risk Phrases</u>   |
|-------------------------|----------------------|---------------|-----------------------|
| Xylene                  | 10 - 20%             | 1330-20-7     | R10, R20/21, R38      |
| Butan-1-ol              | 1 - 5%               | 71-36-3       | R10, R20              |
| Methyl Iso Butyl Ketone | 1 - 5%               | 108-10-1      | R11, R20, R36/37, R66 |
| Zinc Phosphate          | 10 - 20%             | 7779-90-0     | R50/53                |
| Bisphenol A Epoxy Resin | 10 - 20%             | 25068-38-6    | R36/38, R43           |

### 3. HAZARD IDENTIFICATION

Specific hazard: Harmful Xn  
Physical hazard: Flammable  
Flammable, harmful by inhalation and in contact with skin, may cause sensitisation by skin contact.

### 4. FIRST AID

Eye Contact: Wash out with clean water immediately for at least 10 minutes. Seek medical assistance.  
Skin Contact: Wash immediately with soap and water/suitable industrial hand cleaner. Remove contaminated clothing, launder before re-use.  
Inhalation: Remove patient to fresh air, rest and loosen clothing. Seek medical advice if difficulties persist, treat symptomatically.  
Ingestion: Do not induce vomiting, give plenty of water to drink, get medical assistance if feels unwell.

### 5. FIRE FIGHTING PRECAUTIONS

Extinguishing Media: Chemical foam, dry chemicals, water spray or carbon dioxide.  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective equipment.  
Environmental Precautions: Prevent discharge of product to sewers, surface or ground water and soil.  
Recovery: Extinguish ignition sources immediately. If considered necessary, chemical foam may be applied over the spillage to reduce the risk prior to clean up.  
Collect product and place in a sealable container. Absorb any residues using soil, sand or other inert absorbent material. Seal in container. Quarantine all such product, clearly identifying contents. See Section 13 for disposal regulations.

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*This information is offered in good faith but without guarantee or liability*

**7. HANDLING AND STORAGE**

|                                |   |
|--------------------------------|---|
| Prevention of Worker Exposure: | Use only in well ventilated area. Keep containers tightly closed. Wear protective equipment.  |
| Fire Precautions:              | Keep away from ignition sources. No smoking. Ensure spray pumps are earthed prior to use.   |
| Suitable Storage:              | In closed containers, away from direct sun or heat. Temperatures below 24°C are recommended to prevent shelf life problems. Store away from ignition sources. |
| Incompatible Materials:        | Organic peroxides and oxidising materials.  |

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

|   |   |
|---|---|
| Product Name:   | Xylene  |
| Exposure Limits (WEL):  | 8 Hours 50 ppm      15 Minutes 100 ppm  |
| Product Name:   | Butan-1-ol  |
| Exposure Limits (WEL):  | 15 Minutes 50 ppm   |
| Product Name:   | Methyl Iso Butyl Ketone   |
| Exposure Limits (OEL):  | 8 Hours 50 ppm      15 Minutes 100 ppm  |
| NOTE: Exposure standards quoted are UK limits and may vary dependent upon location. |   |
| Effects of Overexposure to Product:   | A moderate irritant on the skin and in the eyes. Exposure at high concentrations can cause headache, nausea, eye irritation, and impairment of co-ordination. |

**PERSONAL PROTECTIVE EQUIPMENT**

|                                   |  |
|-----------------------------------|--|
| Respiratory Protective Equipment: | Respiratory protection must be worn for all spray applications and in areas of poor ventilation. The use of air-fed masks is recommended. Local exhaust ventilation may be used to keep exposure at an acceptable level below WEL. |
| Hand Protection:                  | Solvent resistant gloves.  |
| Eye Protection:                   | Face shield or safety eye protection.  |
| Body Protection:                  | Cotton overalls. During spray application this may be supplemented with a paper suit or carbon impregnated suit. Full PVC chemical suits are not normally required or desirable.   |

**9. PHYSICAL/CHEMICAL PROPERTIES**

|   |   |
|---|---|
| Appearance:   | Viscous liquid  |
| Colour:   | Typically grey, dark green, oxide red or black (Hazard data remains unchanged). |
| Odour:  | Characteristic odour of Xylene and Butanol.                                     |
| Boiling Point:  | Greater than 100°C  |
| Flash Point:  | Greater than 23°C   |
| Auto Ignition Temperature:                              | Greater than 400°C  |
| Explosion/Flammability Limits in Air Values for Xylene: | (Not known for product values)  |
| Lower Explosion Limit:                                  | 1% by volume (10,000 ppm)   |
| Upper Explosion Limit:                                  | 7% by volume (70,000 ppm)   |
| Vapour Pressure for Xylene:                             | 10 mm Hg at 20°C  |
| Density:  | 2.2 g cm <sup>-3</sup>  |
| Solubility in Water:                                    | Insoluble   |
| Solubility in Organics:                                 | Soluble in most aromatic or aliphatic solvents.                                 |
| VOC Level (Base & Activator):                           | 372 g/litre   |
| Percentage Volatile by Volume:                          | 40.1%   |
| Percentage Solids:                                      | 84.3% (solvent free)  |

**10. STABILITY AND REACTIVITY**

|                           |   |
|---------------------------|---|
| Stability:                | Stable under normal storage conditions                  |
| Conditions to Avoid:      | Direct sunlight, heat, ignition sources                 |
| Unstable when mixed with: | Strong acids, strong bases and strong oxidising agents. |

**11. TOXICOLOGICAL INFORMATION**

(Not established for product but for raw material feed stocks)

**ACUTE INFORMATION**

|             |  |
|-------------|--|
| Ingestion:  | Oral LD50 for rats >4000mg/kg (information mixed Xylenes).                                     |
| Skin:       | LD50 Dermal (rabbits) >4000mg/kg (information mixed Xylenes).                                  |
| Inhalation: | LC50 for rats 47600 mg/litre/4 hour  |
| Irritant:   | Product is irritating to both the skin and eyes. May cause sensitisation by contact with skin. |

**OTHER EFFECTS:** Vapour acts as irritant to eyes and respiratory tract. Can cause drowsiness and loss of consciousness.

**12. ECOLOGICAL INFORMATION**

(Not established for product but for raw material feed stocks)

Acute toxicity for fish LC50 (96h) 0.14 – 2.6 mg Zn<sup>2+</sup>/l

**13. DISPOSAL CONSIDERATIONS**

Measures for Disposal: Dispose of all waste in accordance with local and national regulations. Normally this would involve incineration of liquid waste and controlled landfill for polymerised matter.

**14. TRANSPORT INFORMATION****SEA (IMDG)**

|                       |                |
|-----------------------|----------------|
| Proper Shipping Name: | Resin Solution |
| UN Number:            | 1866           |
| Class:                | 3              |
| Packing Group:        | III            |
| Marine Pollutant:     | No             |

**AIR (ICAO/IATA)**

|                       |                |
|-----------------------|----------------|
| Proper Shipping Name: | Resin Solution |
| UN Number:            | 1866           |
| Class:                | 3              |
| Packing Group:        | III            |

**LAND**

|                        |                |
|------------------------|----------------|
| Proper Transport Name: | Resin Solution |
| UN Number:             | 1866           |
| Class:                 | 3              |

**15. REGULATORY INFORMATION**

|                  |   |
|------------------|---|
| EEC Regulations: | EC Labelling  |
| Risk Phrases:    | R10 Flammable<br>R20/21 Harmful by inhalation and in contact with skin.<br>R36)<br>R37) Irritating to the eyes, skin and respiratory system<br>R38)<br>R43 May cause sensitisation by skin contact.<br>R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment |
| Safety Phrases:  | S16 Keep away from sources of ignition<br>S23 Do not breathe fumes/vapour<br>S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.   |
| Symbols:         | Xn Harmful<br>F Flammable   |

**16. OTHER INFORMATION**

**Note:** This information is offered in good faith, but without guarantee or liability. Further information regarding application and the product is available in the Corrocoat manual. Should further information be required consult Corrocoat Technical Services.

**Reviewed 09/2010**