

**HEALTH AND SAFETY****PLASMET ZF ACTIVATOR****SHEET 1 OF 3****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Plasmest ZF Activator (Used with resin base product)  
 Company Name: Corrocoat Limited  
 Company Address: Forster Street, Leeds, West Yorkshire LS10 1PW  
 Company Telephone: +44 (0) 113 2760760  
 Company Fax: +44 (0) 113 2760700  
 Emergency Telephone: +44 (0) 1652641124

**LOCAL CONTACT:**

Company Name: Corrocoat Engineering (Aust) Pty Ltd  
 Company Address: 21 Sorbonne Cres, Canning Vale W A 6155  
 Company Telephone: +61 (8) 9472 2500  
 Company Fax: +61 (8) 9472 2525  
 Australia Wide: 1 300 72 8887

**2. CONTENTS AND HAZARDOUS COMPONENTS**

Chemical Name: Amino polyimide solution dissolved in solvents  
 Hazardous Components:

<u>Name</u>	<u>Concentration</u>	<u>Cas N°</u>	<u>Risk Phrases</u>
Xylene	10 - 20%	95-47-6	R20/21
Toluene	20 - 30%	108-88-3	R11, R20
Iso Propyl Alcohol	0 - 5%	67-63-0	R11
Triethylenetetramine	<5%	112-24-3	R21, R34, R43, R52/53

**3. HAZARD IDENTIFICATION**

Specific Hazard: Harmful Xn  
 Physical Hazard: Flammable  
 Flammable, harmful by inhalation and contact with skin, irritating to eyes and skin, may cause sensitisation by skin contact.  
 Safety Phrases: S16, S23 (See regulatory information section 15 for descriptions)

**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. Seek medical advice if difficulties persist.  
 Ingestion: Do not induce vomiting, give large quantities of water to drink. Seek medical advice immediately.

**5. FIRE FIGHTING PRECAUTIONS**

Extinguishing Media: Water spray, carbon dioxide, dry chemical, alcohol foam.  
 Special Fire Fighting Procedures: Fire fighters should wear butyl rubber boots, gloves and body suit and a self-contained breathing apparatus.  
 Unusual Fire Hazard: May generate toxic, irritating or flammable combustion products  
 Hazchem Code: 3[Y]E

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**HEALTH AND SAFETY****PLASMET ZF ACTIVATOR****SHEET 2 OF 3****6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Wear protective equipment  
 Environmental Precautions: Prevent discharge of products to sewers, surface or ground water and soil.  
 Recovery: Sources of ignition should be extinguished immediately. If considered necessary, chemical foam may be applied over the spillage to reduce risk prior to clean up.

**7. HANDLING AND STORAGE**

Prevention of Worker Exposure: Adequate ventilation is required in the working area.  
 Fire Precautions: Remove all ignition sources, no smoking. Ensure spray pumps are earthed prior to use. Close containers after used.  
 Suitable Storage: In closed containers, away from direct sunlight, heat and ignition sources.  
 Incompatible Materials: Epoxy bases.

**8. EXPOSURE LIMITS/PERSONAL PROTECTION**

Product Name:	Xylene			
Exposure Limits (WEL):	8 Hours	50 ppm	15 Minutes	100 ppm
Product Name:	Toluene			
Exposure Limits (WEL):	8 Hours	50 ppm	15 Minutes	150 ppm
Product Name:	Iso Propyl Alcohol			
Exposure Limits (WEL):	8 Hours	200 ppm	15 Minutes	250 ppm
Product Name:	Triethylenetetramine			
Exposure Limits (WEL)	8 hours	2 ppm	15 minutes	4 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 200 ppm can cause headache, nausea, eye irritation, loss of appetite and impairment of co-ordination. With high concentrations the above complaints are increased.

**PERSONNEL PROTECTIVE EQUIPMENT**

Respiratory Protective Equipment: Respiratory protection equipment must be worn for all spray applications and in areas of poor ventilation. Local exhaust ventilation should be used to keep exposure at an acceptable level.  
 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: Low viscosity liquid  
 Colour: Brown  
 Odour: Solvent odour with faint ammoniacal odour  
 Boiling Point: Greater than 110°C  
 Flash Point: Greater than 14°C  
 Auto Ignition Temperature: Not known  
 Explosion/Flammability Limits in Air: Not known for product values.  
 Values for Toluene:  
 Lower explosion Limit: 1.3% by volume (13,000 ppm)  
 Upper explosion Limit: 8.0% by volume (80,000 ppm)  
 Vapour Pressure for Toluene: 22mm Hg at 20°C  
 Density: 0.91 gms/cm<sup>3</sup>  
 Solubility in Water: Negligible  
 Solubility in Organics: Soluble in most aromatic or aliphatic hydrocarbons  
 VOC Level (Base & Activator): 288 g/litre  
 Percentage Volatile by Volume: 54%  
 Percentage Solids: 46% (solvent free)

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**HEALTH AND SAFETY****PLASMET ZF ACTIVA-****SHEET 3 OF 3****10. STABILITY AND REACTIVITY**

Stability: Stable under normal storage conditions  
 Conditions to Avoid: Direct sunlight and heat  
 Unstable with: Epoxies, oxidising acids and other oxidising agents.

**11. TOXICOLOGY INFORMATION** (Not established for product but for raw material feed stocks)ACUTE INFORMATION

Ingestion: Oral , LD50>4000mg/kg. (information for Xylene).  
 Skin: LD50 dermal >2000mg/kg. (information Xylene)  
 Inhalation: At high concentration can cause dizziness, headaches, nausea, confusion and unconsciousness.

IRRITANT:

Ingestion: Can cause dizziness and nausea  
 Skin contact: Irritant  
 Eye contact: Vapour and liquid are irritating to eyes.

**12. ECOLOGICAL INFORMATION** (Not established for material, but for Xylene)

Toxicity Data: LC50(96h) 3.3mg/l(trout)

**13. DISPOSAL CONSIDERATIONS**

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

**14. TRANSPORT INFORMATION**

## SEA: (IMDG)

Proper Shipping Name: Flammable Liquid N.O.S (Contains Toluene)  
 UN Number: 1993  
 Class: 3  
 Packing Group: II  
 Marine Pollutant: No

## AIR: (ICAO/IATA)

Proper Shipping Name: Flammable Liquid N.O.S (Contains Toluene)  
 UN Number: 1993  
 Class: 3  
 Packing Group: II

## LAND:

Proper Shipping Name: Flammable Liquid N.O.S (Contains Toluene)  
 Class: 3

## HAZCHEM CODE:

3[Y]E

**15. REGULATORY INFORMATION**

EEC Regulations: EEC Labelling  
 Risk Phrases: R10 Flammable  
 R20 Harmful by inhalation  
 Safety Phrases: S23 Do not breathe fumes/vapour  
 S16 Keep away from ignition sources  
 Symbols: Xn Harmful  
 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 other information be required consult Corrocoat Technical Services.  
 Reviewed 03/2011

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