



21 / 23 Gloster Road, Martlesham Heath Industrial Estate, Ipswich IP5 3RD  
Telephone: +44 (0) 1473 622265 / 626651 Fax: +44 (0) 1473 610651  
Email: Stelmaxltd@aol.com

**SAFETY DATA SHEET**

**IDENTIFICATION OF PREPARATION** Polystyrene Cement  
**COMPOSITION / INFORMATION** Methyl Ethyl Ketone <45% Toluene <20%

**HAZARDS IDENTIFICATION** Highly flammable solution and explosive vapours. Can be absorbed through skin. Solution irritating to eyes and respiratory system. Harmful by inhalation.

**FIRST AID MEASURES**

**EYE CONTACT** Irritant. In case of contact, irrigate immediately with plenty of water and seek medical aid.

**SKIN CONTACT** Can be absorbed through skin. May irritate through degreasing action. If spilled on skin, wipe off excess and wash with soap and water.

**INHALATION** Harmful, irritant may cause dizziness, headache and nausea. If affected by vapour, move to fresh air and seek medical aid if symptoms persist.

**INGESTION** Harmful, nausea, dizziness. If swallowed wash out mouth: do not induce vomiting. Give plenty of water to drink. Seek immediate medical attention.

**FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA** CO2 Dry powder, alcohol resistant foam, water fog in absence of electrical equipment. Earth / sand for small fires.

**UNSUITABLE EXTINGUISHING MEDIA** Water jet.

**FIRE & EXPLOSION HAZARDS / HARMFUL COMBUSTION PRODS.** Vapour / air may be explosive. Acidic fumes in fire and CO. Vapour heavier than air – ignition may occur at a distance.

**SPECIAL FIRE FIGHTING PROCEDURES** Use breathing equipment.

**ACCIDENTAL RELEASE MEASURES**

**EYE PROTECTION** Goggles if risk of splashing.

**SKIN PROTECTION** Solvent resistant gloves neoprene or nitrile rubber.

**VENTILATION** Good local

**RESPIRATORY PROTECTION** Vapour respirator if no ventilation.

**SPILLAGE OR LEAK PROCEDURES** Absorb on sand or earth. Extinguish all sources of ignition.

Ventilate area. Do not allow to enter drains.

**HANDLING & STORAGE** Avoid all sources of ignition, sparks, flames, electrical equipment, arc lights, static discharges etc. No smoking. Keep containers tightly closed, away from oxidizing agents. Store at moderate room temperature in closed containers.

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>WORKPLACE EXPOSURE LIMIT EH40/2005</b>	LTEL ppm/mg.m3	STEL ppm/mg.m3
Methyl Ethyl Ketone Sk, Bmgv	200/600	300/899
Toluene Sk	50/191	150/384

Bmgv 70 µmol MEK / l in urine

Sk = Can be absorbed through skin. Bmgv = Biological Monitoring Guidance Values

N / A = not applicable

## **POLYSTYRENE CEMENT** continued.

**PERSONAL PROTECTION** Avoid inhaling vapour. Avoid contact with skin and eyes. Wear solvent resistant gloves (neoprene or nitrile rubber) safety goggles and, if high vapour concentrations are present, self contained breathing apparatus, or full -face respirator with organic vapour cartridge NPF 20. Ensure good ventilation.

### **PHYSICAL & CHEMICAL PROPERTIES**

**APPEARANCE / ODOUR** Viscous solution of Polystyrene bead in Ketone and Toluene Solvent with characteristic odour. **pH** N / A **BOILING POINT** 81 – 111 °C **MELTING POINT** N / A **FLASH POINT** -15°C **FLAMMABLE / EXPLOSIVE LIMITS** LEL 1.25% (v/v) UEL 11.5% (v/v) **AUTO FLAMMABILITY** 515°C **OXIDIZING PROPERTIES** N / A **VAPOUR PRESSURE** N / A **SPECIFIC GRAVITY** 1.30 **WATER / FAT SOLUBILITY** Solvent soluble in water **VOLATILE CONTENT BY WEIGHT** <65%

**STABILITY & REACTIVITY** Violent reaction with oxidising agents eg. peroxides.

**TOXICOLOGICAL INFORMATION** Irritating to eyes and respiratory tract, may cause systemic effects: narcosis, nausea, headaches. Skin: Can be absorbed through skin, chronic exposure may cause dermatitis. Ingestion: harmful, nausea, dizziness. Repeated exposure to high concentrations, damaging to liver and nervous system.

### **ECOLOGICAL INFORMATION**

**MOBILITY** N/A

**BIOACCUMULATION** N / A

**BIODEGRADABILITY** N / A

**AQUATIC TOXICITY** N / A

**DISPOSAL CONSIDERATIONS** According to local regulations for flammable and harmful substances.

### **TRANSPORT INFORMATION**

**CARRIAGE CLASSIFICATION** Flammable Liquid

**ADR / RID** 3

**U.N. NO.** 1133

**PACKING GROUP** II

**IMO CLASS** 3.2

**HAZCHEM CODE** 3 (Y) E

### **REGULATORY INFORMATION**

**CLASSIFICATION** Highly flammable, Harmful.

**SYMBOLS** F, Xn.

**RISK PHRASES** R11: Highly flammable. R20: Harmful by inhalation. R36: Irritating to the eyes. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.

**SAFETY PHRASES** S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition – No smoking. S25: Avoid contact with eyes. S29: Do not empty into drains. S33: Take precautionary measures against static discharges.

### **OTHER INFORMATION**

N / A = not applicable

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