

# MATERIAL SAFETY DATA SHEET: SPEARS FS-5 CEMENT

Issue Date: 30.01.09 Rev: 6

## 1. IDENTIFICATION OF PREPARATION AND COMPANY

**Product name** : SPEARS FS-5 One-Step Cement

**Product use** : Solvent Cement for CVPC BlazeMaster Plastic Pipes and Fittings

### EU Suppliers Name and Address:

International Plastic Systems Limited  
Seaham Grange Industrial Estate  
Seaham  
County Durham  
SR7 0PT

Tel: 0191-5213111 Fax: 0191-5213222

E-mail: sales@ips-plastics.com

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Substance                                   | Approx % | Symbols | Risk Phrases     | CAS No.  | EINECS No. |
|---|----------|---------|------------------|----------|------------|
| Chlorinated Polyvinyl Chloride Resin (CPVC) |          |         |                  | NON/HAZ  |            |
| Tetrahydrofuran (THF)                       | 50-60    | F, Xi   | R 11-36,19,66/67 | 109-99-9 | 203-726-8  |
| Methyl Ethyl Ketone (MEK)                   | 2-9      | F, Xi   | R 11-36-66/67    | 78-93-3  | 201-159-0  |
| Cyclohexanone                               | 2-10     | Xn      | R 10-20          | 108-94-1 | 203-631-1  |
| Acetone                                     | 5-12     | F       | R-11-36,66/67    | 67-64-1  | 200-622-2  |

## 3. HAZARD IDENTIFICATION

Flammable, irritant.

## 4. FIRST AID MEASURES

### Skin contact

Remove contaminated clothing and shoes. Wash skin with plenty of soap and water for at least 15 minutes. Skin irritant. Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact. If irritation develops, obtain medical attention.

### Eye contact

Flush with plenty of water for at least 15 minutes. Vapours slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with liquid. Obtain medical attention.

### Inhalation

If overcome by vapours, remove to fresh air and if breathing stopped, give artificial respiration. If breathing is difficult, give oxygen. Can cause drowsiness, irritation to eyes and nasal passages. Severe overexposure may result in nausea, dizziness or headache. Do not smoke. Obtain medical attention.

### Ingestion

Give 1 or 2 glasses of water or milk. Do not induce vomiting. Moderately toxic. May cause nausea, vomiting, and diarrhoea. May cause mental sluggishness. Obtain immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

### Fire Extinguishing Agents

Water spray, carbon dioxide and dry powder

### Exposure Hazards

Carbon monoxide, carbon dioxide, hydrogen chloride and smoke

### Combustion Products

Carbon monoxide, carbon dioxide, hydrogen chloride and smoke

### Protective Equipment for Firefighters

Self-contained breathing apparatus, positive pressure hose or airline masks

## 6. ACCIDENTAL RELEASE MEASURES

Keep away from heat, sparks, open flame. Use explosion proof ventilation equipment only. PVA coated gloves or neoprene gloves. Splashproof chemical goggles.

Eliminate all ignition sources. Avoid breathing of vapours. Absorb with sand or non-flammable absorbent material.

## 7. HANDLING AND STORAGE

Avoid breathing of vapour, avoid contact with eyes, skin and clothing. All handling equipment should be electrically grounded. Store in the shade below 32°C in a well ventilated area with adequate means of containment.

### Incompatible materials

Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

Follow all precautionary information given on container label, product bulletins and solvent cementing literature.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### System Design

Fume hood with average air flow of 1000 FPM.

### Workplace Exposure Limits

Tetrahydrofuran 50ppm (long term) & 100ppm (short term), can be absorbed through the skin; Methyl Ethyl Ketone (butanone) 200ppm (long term) & 300ppm (short term); Cyclohexanone 10ppm (long term) & 20ppm (short term), can be absorbed through the skin; Acetone 500ppm (long term) & 1500ppm (short term).

NOTE: Long term = 8 hour TWA Reference period & Short term = 15 minute reference period

### Recommended Monitoring Procedures

Maintain airborne concentrations below TLV.

### Respiratory Protection

Full face piece of NIOSH-approved organic vapour cartridge respirator

### Hand protectio

PVA coated or neoprene gloves

### Eye Protection

Splash-proof chemical goggles

### Skin Protection

PVC coated gloves or neoprene gloves

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                         |   |
|-------------------------|---|
| <b>Appearance</b>       | Red, medium syrupy liquid   |
| <b>Odour</b>            | Ethereal  |
| <b>Boiling Point</b>    | 56C, based on first boiling point component i.e. Acetone                  |
| <b>Flashpoint</b>       | Minus 18°C - 14°C based on Acetone  |
| <b>Autoflammability</b> | 321°C, THF  |
| <b>Vapour pressure</b>  | 25.331 KPa of Acetone @ 20°C  |
| <b>Solubility</b>       | Solvent portion completely soluble in water. Resin portion separates out. |
| <b>Vapour density</b>   | 2.0 (Air = 1)   |
| <b>Evaporation Rate</b> | >1.0 (BUAC = 1)   |
| <b>Viscosity</b>        | 1600 Minimum CPS @ 23 ± 2°C   |

## 10. STABILITY AND REACTIVITY

Keep away from heat, sparks, open flame and other sources of ignition.

### Materials to avoid

Caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidants and isocyanates.

### Hazardous Decomposition Products

When forced to burn, this product gives off carbon dioxide, carbon monoxide, hydrogen chloride and smoke.

## 11. TOXICOLOGICAL INFORMATION

### *EFFECTS OF OVEREXPOSURE*

#### Skin contact

Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged skin contact.

#### Eye contact

Vapours slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

#### Inhalation

Severe overexposure may result in nausea, dizziness and headache. Can cause drowsiness, irritation of eyes and nasal passages.

#### Ingestion

May cause nausea, vomiting, diarrhoea. May cause mental sluggishness.

Symptoms of respiratory tract irritation and damage to respiratory epithelium were reported in rats exposed to 5000 ppm THF for 90 days. Elevation of SGPT suggests a disturbance in liver function. The NOEL was reported to be 200 ppm.

## 12. ECOLOGICAL INFORMATION

None of the components of the preparation are classified as dangerous to the environment. However care should be taken to prevent material entering surface drains.

## 13. DISPOSAL CONSIDERATIONS

Dispose of through local authorities if appropriate facilities are available, otherwise transfer to chemical disposal company.

## 14. TRANSPORT INFORMATION

|   |          |                              |     |                      |
|---|----------|------------------------------|-----|----------------------|
| <b>Proper Shipping Name</b>                           | Adhesive |                              |     |                      |
| <b>UN Number</b>                                      | 1133     | <b>Class Number</b>          | 3   | <b>Pkg. Group</b> II |
| <b>UK Road &amp; Sea Freight (IMO) Classification</b> | 3        | <b>Emergency Action Code</b> | 3YE |                      |
| <b>Hazard Identification No</b>                       | 33       | <b>Special Provisions</b>    |     |                      |

## 15. REGULATORY INFORMATION

|                       |   |  |
|-----------------------|---|--|
| <b>Symbols</b>        | : | F, Xi  |
| <b>Risk phrases</b>   | : | R11 Highly flammable<br>R19 May form explosive peroxides<br>R36 Irritating to eyes and respiratory system<br>R66 Repeated exposure may cause skin dryness or cracking<br>R67 Vapours may cause drowsiness or dizziness |
| <b>Safety phrases</b> | : | S7 Keep container tightly closed when not in use<br>S16 Keep away from sources of ignition - no smoking<br>S29 Do not empty into drains<br>S51 Use only in well ventilated areas                                       |

## 16. OTHER INFORMATION

No additional information.

The data contained in this Safety Data Sheet has been supplied as required by the **Chemicals (Hazard Identification and Packaging for Supply) Regulations 2002**, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

*Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.*