



F I R E P R O T E C T

## Material Safety Data Sheet

### FP- 007 Adhesive

MSDS NUMBER: FP- 007      DATE OF LAST REVISION: 01/2013

#### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

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The above mentioned products are a Beige coloured, thick creamy liquid.

##### USE OF PRODUCT

FP- 007 Adhesive is used in high temperature laminations, high temperature adhesive for ceramic fibre blanket, paper and board. Ideal for bonding most high temperature substrates including intumescent.

##### IDENTIFICATION OF THE COMPANY

Fireprotect (Chester) Limited  
Fireprotect House  
Factory Road  
Sandycroft  
Flintshire  
CH5 2QJ

Tel No: 01244 536595  
Fax No: 01244 533592

Contact: Niky Baker

e mail: sales@fireprotect.co.uk

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### COMPOSITION

The above mentioned products contain clay, Sodium Silicate, Water.

COMPONANT	%	CAS Number
Sodium Silicate Solution	55	1344-09-8

Clay: Once products are dry, long term exposure to any mineral dust could cause effects in the respiratory system. Airborne dust may cause irritation to the eyes.

#### 3. HAZARDS IDENTIFICATION

**IRRITANT EFFECT:** Excessive and prolonged contact with skin and eyes may cause irritation. To minimise contact risks wear protective clothing, gloves and suitable eye protection.

**PHYSICAL HAZARDS:** Wet substance spillage can constitute a slipping hazard.

#### 4. FIRST-AID MEASURES

- Eyes:** Eye wash facilities must be kept close at hand. Wash immediately with copious amounts of water. Seek medical advice
- Skin:** Wash skin thoroughly with water and remove contaminated clothing. Obtain medical attention if symptoms develop.
- Inhalation:** Remove to fresh air. Obtain medical attention immediately
- Ingestion:** Do not induce vomiting. Drink 1 or 2 glasses of water (or milk) and obtain medical attention.

#### 5. FIRE FIGHTING MEASURES

Non combustible products  
Packing and surrounding materials may be combustible  
Use extinguishing agent suitable for surrounding combustible materials.

#### 6. ACCIDENTAL RELEASE MEASURES

- Spillage:** If possible contain spillage and absorb in earth or sand and shovel into suitable containers. Spillage, unless dealt with promptly, may set and cause nuisance trip hazard.
- Environmental Precautions:** If containment is not possible and material enters drains, dilute as much as possible with water and immediately notify the authorities.
- Personal Care:** Wear protective clothing, gloves and suitable eye protection.

#### 7. HANDLING AND STORAGE

- Handling:** Wear suitable protective clothing, gloves and eye protection.
- Storage:** Do not store at temperatures above 50°C for prolonged periods. PROTECT FROM FROST. Normal ventilation is adequate.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- Exposure Limits: (UK EH40/95)** Not listed. Sodium hydroxide has an exposure limit of 2mg/m<sup>3</sup> ( 15 mins TWA). When using FCL 007 products it is recommended that exposure to alkalinity, calculated as NaOH, should be kept below this limit
- Personal Protection:** Wear suitable overalls  
Wear enclosed goggles. Eye protection is essential when Handling alkaline materials.  
Wear impermeable plastic or rubber gloves  
No eating, drinking or smoking while using this product.  
Wash off splashes immediately.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Beige coloured liquid
Odour:	Earthy
PH Value:	>8-9
Viscosity:	Not known
Freezing Point:	0°C
Boiling Point:	100°C
Melting Point:	Not applicable
Flash Point:	Not applicable
Auto flammability:	Not applicable
Explosive Limits:	Not applicable
Vapour Pressure:	Not applicable
Relative Density:	1.36
Solubility (H <sub>2</sub> O):	Soluble

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Materials And Conditions To Avoid:** May react with aluminium, Zinc, Tin and their alloys evolving hydrogen gas. Dilute solutions (<10% solids) have zero to minimal action with these metals. If arc welding is carried out on vessels containing FCL 007 products take care to prevent electrolysis of the solution. Circuits must not be completed through pipes containing valves or flange bolted or threaded joints. May react violently with acids.

**Hazardous Decomposition:** None known.

## 11. TOXICOLOGY INFORMATION

<b>General:</b>	The primary hazard of sodium silicate by all routes of entry into the body is its alkalinity.
<b>Ingestion:</b>	The toxicity of sodium silicate is dependent on the silica to Alkali weight ratio and on the pH. LD50 oral rat values reported in the literature are in the range of 1600-3200mg/kg
<b>Inhalation:</b>	Unless the solution is sprayed or otherwise becomes airborne as an aerosol, inhalation of silicate solution is unlikely to occur. Irritation of the nose, throat and lungs, due to alkalinity is the likely effect.
<b>Skin Contact:</b>	Prolonged contact may cause irritation
<b>Eye Contact:</b>	May cause irritation to eyes.

## 12. ECOLOGICAL INFORMATION

Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. However, the pH of most silicate solutions is above the acceptable limits for direct discharge to sewers and water courses.

### 13. DISPOSAL CONSIDERATIONS

**Disposal:** no special regulations on disposing FCL 007 products. Care should be carried out on not allowing FP-007 materials to enter public drainage systems. Consult local regulations before disposal.

### 14. TRANSPORT INFORMATION

Not classified as dangerous goods under the United Nations Transport Recommendations

### 15. REGULATORY INFORMATION

Not classified under the rules of the EEC "Dangerous Substances Directive" 67/548/EEC as amended by 92/32/EEC

