

# MATERIAL SAFETY DATA SHEET

## DUROSIL DR11 SOLUTION

### 1. Identification of the Product and Company

Product Name                      Durosil DR11 solution.

Intended Use                        Acid Resistant Concrete

Company                              Actchem Inc Ltd  
    PO Box 152  
    Neston  
    CH33 9DJ

Email                                  contact@durosilproducts.co.uk

### 2. Information on Ingredients

Contains: Aqueous solution of Potassium Silicate.

### 3. Hazards Identification

Eye and skin irritant.

### 4. First Aid Measures

Eye Contact:                      Wash immediately with water or saline solution and seek medical advice

Ingestion:                         Do not induce vomiting. Drink ½ pint of water and seek medical advice

Skin Contact:                      Wash with copious amounts of water. If irritation persists seek medical advice

### 5. Fire Fighting Measures

Aqueous solution, will not support combustion.

## 6. Accidental Release Measures

- Precautions: Prevent spillage from entering dains or watercourses.
- Cleaning: Wear correct PPE. Absorb in a dry medium and shovel in to suitable containers. Notify authorities if product enters drains.

## 7 Handling and Storage

- Handling: Wear correct PPE, gloves, goggles, overalls and closed footwear.
- Storage: Keep from freezing. Do not store above 50°C

## 8. Technical Controls/ Personal Protection

- Technical Protective Measure: Avoid spillages.
- Exposure Limit: Not listed.
- Keep eye wash bottle to hand.
- Do not eat or drink in work area.
- Respiratory Protection: Not required.
- Hand Protection: Wear PVC gloves
- Eye Protection: Wear goggles
- Skin Protection: Wear thick overalls and closed footwear.

## 9. Physical and Chemical Properties

- |                       |                   |                       |         |
|-----------------------|-------------------|-----------------------|---------|
| Appearance:           | Colourless liquid | Melting Point:        | N/A     |
| Odour:                | Nil               | Boiling Point:        | 100°C   |
| Density:              | 1.432             | Oxidising Properties: | Nil     |
| Flashpoint:           | None              | Autoflammability:     | Nil     |
| Ignition:             | N/A               | Solubility in water:  | Soluble |
| PH:                   | >11               | Vapour Pressure:      | N/A     |
| Viscosity:            | 20-50,000cps@20°C | Partitio Coefficien:  | Nil     |
| Explosive Properties: | Nil               |                       |         |

## 10. Stability and Reactivity

- Thermal Composition: Stable
- Conditions to Avoid: Welding of vessels holding product
- Materials to Avoid: Acids
- Hazardous Decomposition Products: None known

## 11. Toxological Information

LD 50 Acute Oral Toxicity: 3500-6000mg/kg

Eye Irritation tested on Rabbits: No data

Skin Irritation & Reactivity  
tested on Rabbits: No data

## 12. Ecological Information

Prevent contamination of soil, drains and watercourses. When diluted the product is similar to natural dissolved silica, but pH is too high for direct discharge.

## 13. Disposal

Classed as special waste. Do not wash in to drains or watercourses.  
Dispose of only via an approved waste disposal contractor, according to local and national regulations.

## 14. Transport Information

Not classified as hazardous for transport.

## 15. Regulatory Information

Symbol: Xi Irritant.  
Contains Potassium Silicate.

Risk Phrases: R36  
R38

Safety Phrases: S26  
S27  
S37  
S39

## 16. Other Information

For use with Durosil DR11 aggregate to produce an acid resistant concrete.

October 04