

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: ADOCURE WW/WWT

Synonyms: Proprietary concrete curing aid

Company name: Adomast Manufacturing Ltd

**Engine Lane, Shafton, Barnsley, S72 8SP Tel: 01226 70786**

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: SODIUM SILICATE 10-30% EINECS: 229-912-9 CAS: 1344-09-8 [Xi] R38; [Xi] R41

### 3. HAZARDS IDENTIFICATION

Main hazards: Irritating to skin. Risk of serious damage to eyes.

### 4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

### 4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: The material is not flammable therefore the media used is for the fire only. This product may give rise to hazardous fumes in a fire.

Protection of fire-fighters: Wear protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection is not normally required. However suitable respiratory equipment may need to be provided for those operations which generate vapour, mists or fumes and where exposure cannot be adequately controlled by local exhaust ventilation or other means.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid  
Colour: Colourless  
Odour: Barely perceptible odour  
Volatile Organic Content: Nil  
Evaporation rate: Slow  
Solubility in water: Soluble  
Viscosity: Non-viscous  
Relative density: 1.084  
pH: 11-12

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.  
Conditions to avoid: Heat.  
Materials to avoid: Zinc. Acids. Aluminium. Fluorine vapours.  
Haz. decomp. products: This product may give rise to hazardous fumes in a fire.

## 11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: SODIUM SILICATE ORL RAT LD50 1280 mg/kg  
Chronic toxicity: Hazardous in case of contact with skin (irritant), very hazardous in case of eye contact (irritant).  
Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

General consideration: soluble silicates upon dilution rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils. However, the pH of most undiluted silicate solutions is above acceptable limits for direct discharge into waterbodies

Mobility: The product is soluble with water & is expected to have moderate solubility in soil. Sodium silicate has low volatility.

Degradability: In solution sodium silicate rapidly depolymerises into molecular species indistinguishable from natural dissolved silica.

Accumulation: Sodium silicate is expected to have very low potential for bioaccumulation

Eco-toxicity: Very High concentrations of the product MAY cause moderate damage to the aquatic environment due to the high pH of the solution. Adocure WW /WWT is <15% sodium silicate.

⇒ Ecotoxicity :

LC50 Fish : 3185mg product/litre (by analogy with sodiumsilicate with MR 3.36, 35%)

EC50 Bacteria : > 1000mg product/litre (by analogy with sodiumsilicate with MR 3.36, 35%)

EC50 Daphnia: 4857mg product/litre (by analogy with sodiumsilicate with MR 3.2, 35%)

## 13. DISPOSAL CONSIDERATIONS

Disposal operations: Dispose of via an authorised person / licensed waste disposal contractor in accordance with local regulations. Waste code number: 16 03 04. Disposal of packaging: May be reused following decontamination.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## 14. TRANSPORT INFORMATION

ADR / RID ADR Class: Not classified

IMDG / IMO Class: Not classified

IATA / ICAO Class: Not classified

#### 15. REGULATORY INFORMATION

Hazard symbols: Irritant.

Risk phrases: R38: Irritating to skin.

R41: Risk of serious damage to eyes.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S2: Keep out of the reach of children.

S39: Wear eye / face protection.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

#### 16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product