

**Section 1 ; Identification of the substance /mixture and of the company undertaking****1.1 Product Identifier****Product Name:** Adotuf**CAS Number:****EINECS Number:****Synonyms:** Concrete dustproofing and sealing compound. Also used as a curing compound**1.2 Relevant identified uses of the substance or mixture & uses advised against**

Use Of Substance /mixture :Industrial uses. Concrete dustproofing and curing agent

**1.3 Details of the supplier of the safety data**

**Company Name:** Adomast Manufacturing Ltd  
Barkston Road, Carlton Industrial Estate  
Barnsley  
S71 3HU  
Tel: 01226 707863  
Fax: 01226 718051  
Email: sales@adomast.co.uk

**1.4 Emergency telephone number**

Emergency Telephone Number : 07887 416399 (24 hours)

## Section 2: Hazards Identification

### 2.1 Classification of the substance or mixture

In compliance with EC Regulation No. EC 1272/2008 and its amendments

Metal Corr.1	H290: May be corrosive to metals
Skin Corr 1B / Eye Dam. 1	H314: Causes severe skin burns and eye damage
STOT SE 3	H335: May cause respiratory irritation

### 2.2 Label elements

In compliance with EC Regulation No. EC 1272/2008 and its amendments

Hazard Pictogram



GHS07 : Exclamation mark

Signal words: Danger

Hazard statements :

H290: May be corrosive to metals
H314 : causes skin burns and eye damage
H335 : may cause respiratory irritation

Precautionary statements : (mist/vapours/spray)

P261: Avoid Breathing  
P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear Protective gloves/clothing/eye protection  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 +361 + 353;IF ON SKIN OR HAIR : remove immediately all contaminated clothing. Rinse skin with water /shower  
P304 =340 IF INHALED. Remove to fresh air and keep at rest in a position comfortable for breathing  
P305 +351+338; IF IN EYES rinse carefully with water for several minutes. Remove contact lenses if present & easy to do so . Continue rinsing.  
P501: Dispose of contents/container to: an approved waste facility

### 2.3 Other hazards:

PBT : This product is not identified as a PVT/vPvB substance

**Section 3: Composition on ingredients**

**3.2 Mixtures**

Chemical Name	EINECS	CAS	Classification –REGULATION (EC) No 1272/2008	Percent
Disodium Metasilicate Pentahydrate	229-912-9	6834-92-0	Metal Corr.1 : H290 Skin Corr. 1B/Eye Dam1 : H314 STOT SE 3: H335	< 23%

**Section 4 : First Aid measures**

**4.1 Description of first aid measures :**

- Skin contact:** Remove contaminated clothes and footwear immediately. Unless stuck to skin. Drench the affected skin with running water for 10 minutes Transfer to hospital if there are symptoms of burns
- Eye Contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination
- Ingestion:** Wash the mouth out with water. Do not induce vomiting. If conscious , give half a litre of water to drink. Transfer to hospital as soon as possible
- Inhalation:** Remove casualty from exposure. If unconscious check for breathing & apply artificial respiration if necessary. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

- Skin contact:** Irritation or pain may occur at tsite of contact. Severe burns may occur
- Eye Contact:** There may be irritation & redness. There may be severe pain. Corneal burns may occur. Risk of serious damage to eyes
- Ingestion:** There may be soreness & redness of the mouth & throat. Corrosive burns may appear around the lips. May cause throat burns. Nausea & stomach pains may occur. There may be vomiting.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. May cause irritation to the mucous membrane and respiratory system. Corrosive to the mucous membrane. Prolonged or repeated exposure may cause ulceration & perforation to the nasal septum.

Delayed / Immediate effects : Immediate effects can be expected after short term exposure.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Immediate /special treatment : Eye bathing equipment should be available on the premises.

Obtain immediate medical attention

### Section 5 : Fire-Fighting measures

#### 5.1 Extinguishing media

Extinguishing media : No known UNSUITABLE extinguishing media. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### 5.2 Special hazards arising from the substance or mixture

Exposure hazards: The material is not flammable. Even though it is not combustible , hazardous and toxic fumes may be generated if involved in a fire.

#### 5.3 Advice for fire-fighters

Advice for fire-fighters : Wear well contained breathing apparatus. Wear protective clothing to prevent contact with skin & eyes.

### Section 6 : Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective clothing. Refer to section 8 of SDS for personal protection details

#### 6.2 Environmental precautions

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

**6.3 Methods and material for containment and cleaning up**

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

**Section 7 Handling and storage**

**7.1 Precautions for safe handling :**

**Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air. Wear protective clothing. Eye wash facilities should be readily available

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions :** Store in cool, well ventilated area. Keep container tightly closed. Keep away from acids. Compatible materials: Stainless steel. Incompatible materials : Zinc, Tin, Aluminium, Copper & their alloys

**Suitable packaging :** Plastic/ Plastic lined

**7.3 Specific end uses (s)**

**Specific end uses :** No special requirement

**Section 8 : Exposure control / personal protection**

**8.1 Control parameters**

Workplace exposure limits	Respirable Dust			
	8 hour TWA	15 min STEL	8 Hour TWA	15 min STEL
Location				
UK	6.22 mg/m <sup>3</sup>			

**Hazardous ingredients : Di-Sodium Metasilicate Pentahydrate**

**UK                      8 hour TWA      15 min STEL**

**6.22mg/m<sup>3</sup>**

**DNEL / PNEC Values : No data available**

Type	Exposure	Value	Population	Effect
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**8.2 Exposure controls**

- 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 (alkali resistant)**
- Eye protection:**              **Tightly fitting safety goggles. Ensure eye bath is to hand.**
- Skin protection:**              **Protective clothing**
- Environmental:**                **No special requirement**

## Section 9.0 Physical and Chemical properties

### 9.1 Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless

**Odour:** Barely perceptible odour

**Oxidising:** Non oxidising

**Solubility in water:** Soluble

**Viscosity:** Non viscous

**Boiling point /range °C :**

**Relative density:** 1.05-1.10

**pH :** 11-12

### 9.2 Other information

Other information : Not applicable

## Section 10.0 Stability and reactivity

### 10.1 Reactivity

**Reactivity :** Aqueous solutions will react with aluminium, tin, zinc, copper & their alloys evolving hydrogen gas which can form an explosive mixture with air. Exothermic reaction if in contact with acids

### 10.2 Chemical stability

**Chemical stability :** Stable under recommended storage and handling conditions

### 10.3 Possibility of hazardous reactions

**Possibility of hazardous reactions:** Aqueous solutions will react with aluminium, tin, zinc, copper & their alloys evolving hydrogen gas which can form an explosive mixture with air. Exothermic reaction if in contact with acids

**10.4 Conditions to avoid**

Conditions to avoid: Avoid contact with concentrated acids

**10.5 Incompatible materials**

Materials to avoid: Zinc, Aluminium, Tin and their alloys.  
Strong acids, strong oxidising agents  
Fluorine gas

**10.6 Hazardous decomposition products**

Haz decomp products : Contact with Zinc, aluminium, Brass Tin and Zinc will liberate highly flammable & explosive hydrogen gas. This product may give rise to hazardous fumes in a fire.

**Section 11 Toxicological information**
**11.1 Information on toxicological effects : All symptoms of acute toxicity are due to high alkalinity**

Toxicity values: Contains Di—Sodium Metasilicate Pentahydrate

Eye & Skin Contact—Material can cause chemical burns. May cause permanent eye damage if eye is not immediately irrigated.

Route	species	Test	Value	Units
ORAL	RAT	LD50	1150-1349	mg/kg

**Relevant effect for mixture :**

Effect	Route	Basis	
Irritation	INH	Hazardous	Calculated
Corrosivity	MUS	Hazardous	calculated



**Symptoms / routes of exposure**

**Skin contact:** Corrosive to skin. Irritation or pain may occur at the site of contact.

**Eye contact :** There may be severe pain. Corneal burns may occur. Risk of serious damage to eyes

**Ingestion :** There may be soreness and redness of the throat. Corrosive burns may appear around the lips. May cause throat burns. Nausea and stomach pains may occur

**Inhalation :** There may be irritation of the throat and a feeling of tightness in the chest. May cause irritation of the mucous membranes and respiratory system

**Delayed / immediate effects:** Immediate effects can be experienced after short term exposure

**Other information:** No other information available at this moment

**Section 12 Ecological information**

**12.1 Toxicity:**

**Ecotoxicity values :**

Species	Test	Value	Units
Algae	72H EC50	345	mg/l
Daphnia magna	48H LC50	1700	mg/l
Fish	96H EC50	210	mg/l

**12.2 Persistence and degradability**

**Persistence and degradability :** Inorganic. Soluble silicates 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

### 12.3 Bioaccumulative potential

**Bioaccumulative potential: Inorganic. There is no evidence of bioaccumulation**

### 12.4 Mobility in soil

**Mobility : Readily absorbed into soil. Fully soluble in water**

### 12.5 Results of PBT and vPvB assessment

**PBT identification : This product is not identified as a PVt/vPvB substance**

### 12.6 Other adverse effects

**Other adverse effects: Do not allow to enter watercourses or soil. Spillage in sewers or waterways must be avoided. Alkalinity may have local effect on ecosystems sensitive to changes in pH**

## Section 13 Disposal considerations

### 13.1 Waste treatment methods

Disposal Operations: Dispose of via an authorised person / licensed waste disposal contractor in accordance with local regulations. EWC number: 06 02 99

Recovery operations : No information available at this time

Disposal of packaging : May be reused following decontamination. Where practical containers and packaging should be recycled by a licensed contractor

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

**Section 14 Transport information**

**14.1 UN number:**

UN Number: UN 3253

**14.2 UN proper shipping name**

Shipping name : DISODIUM TRIOXOSILICATE

**14.3 Transport Hazard Class**

Transport class: 8

**14.4 Packing Group**

Packing group : III

**14.5 Environmental hazards**

Environmentally hazardous : NO

Marine pollutant : NO

**14.6 Special precautions for user**

Special precautions: No special precautions

Tunnel code: NA

Transport category : NA

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

Transport in bulk: Not applicable

## Section 15 Regulatory information

### 15.1 Safety, health and environmental regulations specific for the substance or mixture

Specific regulations: :

**Hazard statements :**  
H290: May be corrosive to metals  
H314 : causes skin burns and eye damage  
H335 : may cause respiratory irritation

**Precautionary statements : (mist/vapours/spray)**  
P261: Avoid Breathing  
P262: Do not get in eyes, on skin, or on clothing.  
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P303 +361 + 353;IF ON SKIN OR HAIR : remove immediately all contaminated clothing. Rinse skin with water /shower  
P304 =340 IF INHALED. Remove to fresh air and keep at rest in a position comfortable for breathing  
P305 +351+338; IF IN EYES rinse carefully with water for several minutes. Remove contact lenses if present & easy to do so. Continue rinsing.  
P501: Dispose of contents/container to: an approved waste facility

### 15.2 Chemical Safety Assessment

**Chemical safety assessment :** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16 Other information

### 16.1 Other information :

**Other information:**

**Phrases used in s.2 and s.3 :**

**Hazard statements :**  
H290: May be corrosive to metals  
H314 : causes skin burns and eye damage  
H335 : may cause respiratory irritation

**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. The company shall not be held liable for any damage resulting from handling or from contact with the above product.