

DESCRIPTION

**CLEAR HIGH MODULUS SILICONE  
SEALANT 310ML**



ORDER CODE

**S 138 MSDS**

### SECTION 1: Identification of the substance / preparation and company

**1.1 Product identifier**

S 138

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Sealant

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

Seals + Direct Ltd  
Unit 6, Milton Business Centre  
Wick Drive, New Milton  
Hants, BH25 6RH  
Tel: 01425 617722  
Fax: 01425 610967  
Email: sales@sealsplusdirect.co.uk

**1.4 Emergency telephone number**

Tel: 01425 617722 (Mon – Fri 8:30am – 5pm)

### SECTION 2: Hazards Identification

**2.1 Contact hazard**

The product may cause slight irritation if briefly in contact with the eyes or skin. Prolonged contact may cause moderate irritation to the respiratory system or mucous membrane.

**2.2 Environmental Hazard**

If the product is disposed of appropriately it presents no special risk to the environment with the exception of a minor water hazard.

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## 2.3 Adverse physic-chemical effects

The product is combustible. The product may produce dangerous vapours during processing / use when in contact with water / humidity (see section 10).

## 2.4 Other hazards

The product may stick to the skin.

## SECTION 3: Composition / information on ingredients

Preparation/formulation based on the following components:

Siloxanes - curing agent [type acetoxysilane] - pigment dyestuffs - inert additives.

Total content of curing agents [§ 3.1]: < 5%.

Only type A 3354.1 contains in very low concentration: fungicides [see section 4.6].

## 3.1 The Product Contains the Following Relevant Components

- (1) triacetoxymethylsilane
- (2) triacetoxylethylsilane

## 3.2 Characterization of Components listed in Section 3.1 (for Exposure Limits see Section 8.1)

CAS	EEC-No	Index No.	Warnings	R-Phrases
(1) 4253-34-3	224-221-9		C	34
(2) 17689-77-9	241-677-4		C	34

## 3.3 CMT-Categorization of Components Listed in Section 3.1

EEC Category					
Item	Carc	Muta	RF	RE	EEC Guideline
(1)	nc	nc	nc	nc	
(2)	nc	nc	nc	nc	

## SECTION 4: First Aid Measures

### 4.1 General Instructions

General measures are not necessary.

## 4.2 In Case of Eye Contact

After separating the eyelids immediately flush eyes thoroughly with plenty of water (at least for 5 minutes). In case eye irritation persists, consult an oculist.

## 4.3 In Case of Skin Contact

Remove contaminated clothing and shoes. Wash affected skin thoroughly and lasting with plenty of soap and water. In case of persisting irritation call in a physician. Show the physician container or label.

## 4.4 In Case of Ingestion

Do NOT induce vomiting! Only in case the affected person is fully conscious, rinse out the mouth with plenty of water and make victim drink plenty of water (better physiological saline solution). In case inconvenience persists seek medical advice. Show the physician container or label.

## 4.5 In Case of Inhalation

Guide affected person to fresh air. Ease clothes. Keep free the respiratory ways. In case inconvenience persists seek medical advice. Show the physician container or label.

## 4.6 Notes to the Physician

There is no specific information available about the product. Treat affected person according to symptoms developing. Only type A 3354.1 contains fungicides in very low concentration: 4,5-dichloro-2-octyl-2H-isothiazol-3-one [ $< 0.05\%$ ]. May produce an allergic reaction in concentrated form.

## SECTION 5: Fire-fighting Measures

### **Suitable Extinguishing Media**

Carbon dioxide, powder and foam extinguisher, water spray.

### **Not to be Used for Safety Reasons**

None known.

### **Specific Exposure Hazards Arising from the Substance or its Combustion Products**

The product is commercially distributed only in small containers. The main fire hazard is the inflammability of the packaging material. The product is combustible. Possible formation of explosible mixtures with air. Heating will cause a pressure rise - risk of bursting. Properties of combustion gases/vapours: highly flammable - toxic - corrosive.

## **Specific Protective Equipment and Measures Required for Fire-Fighting**

Cool containers exposed to the fire with water spray. Protective equipment in the event of fire: self-contained breathing apparatus and suitable chemical protection clothing. Prevent fire-fighting water from entering surface water or groundwater. Collect contaminated extinguishing water and dispose off according to the local restrictions (see section 13).

## SECTION 6: Accidental Release Measures

### **Person-related precautionary measures**

Wear suitable protective equipment [see section 8.3]. Do not inhale vapours/aerosols. Avoid contact with substance.

### **General precautionary measures**

Secure undamaged small containers (tins, cartouches, tubes) in a well protected place. In case of big spill caused by damaged small containers: Mark out area - warn out danger. Keep unauthorized persons away from dangerous zone. Ensure supply of fresh air in enclosed rooms. Close all drains. Prevent the liquid from entering into sewers, workpits and basements. Remove sources of heat and ignition. Contain the spillage by bunding with universal binder and / or sand.

### **Procedures for cleaning/absorption**

Allow spilled viscous product to cure, then take up using spatula, broom, spade and / or Absorb spilled viscous product using universal binder and / or sand. Mob up spill in suitable container, forward material and container for disposal. Clean affected area with water and surfactant.

### **Environmental-protection measures**

In case of environmental pollution inform fire brigade or police.

## SECTION 7: Handling and Storage

### **7.1 Handling**

#### Precautions for safe handling

Use product only in well ventilated areas/workplaces. Avoid contact with substance. Do not smoke during work.

### **Advice on technical measures**

Install suitable exhaustion system. Ensure permanent supply of fresh air in the handling sites. [Liberation of dangerous vapours / sprays (see section 10) during processing/use of the product].

## Further specific requirements

Process product away from hot surfaces / sources of heat and ignition. Avoid any uncontrolled contact with humidity/water. Provide at the working place: eyewash fountains. Comply with the instructions for use (refer to technical data sheet).

## 7.2 Storage

Store product only in tightly closed original container in a cool, well-ventilated place. Protect the product against frost and influence of weather factors - humidity and water. Keep product away from food, drink and animal feedingstuffs. Use product very soon once original packaging is opened. Specific design for storage rooms: dry - frost protected - safe.

Comply with national regulatory directives: Storage of water hazardous substances.

## 7.3 Specific Uses

Refer to technical data sheet.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1 Personal Hygiene and Personal Protective Equipment

Respect the general regulations of industrial working hygiene as stated by the responsible professional association. Avoid contact with substance. Do not breathe product vapours released during product vulcanisation. When using do not eat, drink or smoke. Wash your hands after work. Change polluted clothing.

#### Respiratory

Respiratory protection mask with gas filter EN 3181 AX only in case of exceeding airborne limits [see section 8.1]. Comply with national regulatory directives: Time limitation for the use of respiratory masks.

#### Eye

Safety goggles with side-protection (not obligatory but recommended).

#### Hand

Impervious safety gloves (protection index 3 ; breakthrough time according to EN 374: > 60 min). Glove material: nitrilo rubber - butyl rubber - plastic – PVC.

#### Body

Impervious working clothes.

## SECTION 9: Physical and Chemical Properties

State (@ 20°C) Pasty  
Colour Varicoloured  
Odour Characteristic

Change in Physical State	>200°C
Density (@ 25°C)	1.0g/cm <sup>3</sup> (approx.)
Vapour Pressure (@ 20°C)	15hpa (acetic acid)
Viscosity (@ 25°C)	Pasty
Water Solubility (@ 20°C)	Practically insoluble
Fat Solubility	Partly miscible with the commonly used organic solvents insoluble in acetone - ethanol
Flashpoint (DIN 51755)	>150°C
Auto-ignition Temperature	427°C (acetic acid)
Exposure Limits	Lower; 4% by vol, Upper: 17% by vol (acetic acid) The product is a non-oxidizing material (Directive 67/548/EEC, Annex A.16)
Further Data	VOC-Share: <3% (Lit 1)

## SECTION 10: Stability and Reactivity

### **Conditions to Avoid**

The product is stable by appropriate use at ambient temperatures.

### **Products to Avoid**

acids, strong oxidizing and reducing agents (reaction).  
water/humidity (liberation of acetic acid).

### **Hazardous Decomposition Products**

Hazardous combustion gases and/or vapours: carbon monoxide and carbon dioxide.

In contact with water/humidity: formation of acetic acid.

## SECTION 11: Toxicological Information

In case the general instructions of good occupational hygiene are respected and any breathing of product vapours and product dusts is avoided the handling of the product does not imply a special health hazard. The contact with the product is weakly irritating to the eyes and the skin. Prolonged/repeated contact with the product is moderately irritating to the respiratory system and/or the mucous membranes. After concentrated exposition the following symptoms may occur : Flow of tears - headache - tingling sensation - coughing - irritation to the respiratory tract. (Lit 1)

acetic acid:  
(local tolerance)  
eyes/rabbit: (50 µg) severe (Lit 2).  
skin/rabbit: (20 mg/24 h) moderate (Lit 2).

(acute toxicity)  
LD(50)oral/ rat: 3310 mg/kg (Lit 2).  
LD(50)cutaneous/ rabbit: 1060 µl/kg (Lit 2).  
LC(50)inhalation/ mouse: 5620 ppm /1 h (Lit 2).

## SECTION 12: Ecological Information

In case of strict observance of appropriate disposal methods (see section 13) the product presents no special risk to the environment.

Water Hazard Classification [Germany]: slightly water hazardous [WGK 1].

The product is practically insoluble in water and readily forms deposits. The volatile component is biodegradable. The product has a low bioaccumulative potential. (Lit 1)

Do not release the product in the environment. Decant and purify polluted waste water before its release into the drains.

acetic acid:

LC(50) pimephales promelas/ 96 h: 88 mg/l (Lit 3).  
EC(50) daphnia magna/ 24 h: 1050 mg/l (Lit 3).

## SECTION 13: Disposal Consideration

Allow substance/preparation to cure and dispose (landfilling - category: commercial wastes). Allow substance/preparation to cure and dispose (landfilling - category: municipal wastes).

Separate different packaging material. Dispose empty small containers (tins, cartouches, tubes) – (landfilling - category: commercial wastes/landfilling - category: municipal wastes).

List of hazardous waste (Directive 75/442/EEC): classification has to be carried out in own responsibility.

## Recommendation

### EEC Waste Code

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

### EEC Waste Code

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

### EEC Waste Code

08 04 99 wastes not otherwise specified

## SECTION 14: Transport Information

### **Preparation / formulation**

Not classified as dangerous goods.

## SECTION 15: Regulatory Information

### **R-phrases**

No specific regulations or labelling requirements

### **S-phrases**

No specific regulations or labelling requirements

### **Additional labelling**

Directives 67/548/EEC and 1999/45/EC

### **Preparation and / or components are listed in**

European Inventory of Existing Commercial Chemical Substances Listing (EINECS/ELINCS)

### **Water-Hazard Classification**

WGK 1 (Lit 1).

## SECTION 16: Other Information

### **Revision date**

Refer to date at bottom of sheet

## **16.1 References**

(Lit 1): Unpublished producer results.



(Lit 2): Registry of Toxic Effects of Chemical Substances, CD-ROM Silver Platter (1997).

(Lit 3): Literature Data.

Abbreviations: nc: not classified. nyc: not yet classified. nda: according to classification not concerned.

**16.2 The following Sections of the MSDS compared to Version dated 29.02.2008 has been revised:**

Alterations in section(s): 1.1 Identification of the substance or preparation.

**16.3 R Phrases Referring to Headings 2 and 3**

R34 - Causes burns.