

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: **MS Clear HS**

Article number: 85839

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

FOR PROFESSIONAL AND INDUSTRIAL USE ONLY

Application of the substance / the mixture *Sealer*

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

KENT (United Kingdom) Ltd  
 Forsyth House  
 Pitreavie Drive  
 Pitreavie Business Park  
 Dunfermline  
 Fife  
 KY11 8US

Tel: +44 01383 723344 / 0800 136925 Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

Fax: +44 1383 620079

SDS@kenteurope.com

#### 1.4 Emergency telephone number:

Tel: +44 01383 723344 During normal office hours - Monday - Thursday 8.30am - 5.30pm, Friday 9.00am - 3.00pm

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 *The product is not classified, according to the CLP regulation.*

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 *Void*

Hazard pictograms *Void*

Signal word *Void*

Hazard statements *Void*

Additional information:

*Safety data sheet available on request.*

2.3 Other hazards *Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released during curing.*

#### Results of PBT and vPvB assessment

PBT: *Not applicable.*

vPvB: *Not applicable.*

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

Description: *Mixture of the substances listed below with harmless additions.*

##### Dangerous components:

|   |                                |  |     |
|---|--------------------------------|--|-----|
| CAS: 2768-02-7<br>EINECS: 220-449-8<br>Reg.nr.: 01-2119513215-52  | Trimethoxyvinylsilane          | Flam. Liq. 3, H226; Acute Tox. 4, H332 | <3% |
| CAS: 13822-56-5<br>EINECS: 237-511-5<br>Reg.nr.: 01-2119510159-45 | 3-(trimethoxysilyl)propylamine | Eye Dam. 1, H318; Skin Irrit. 2, H315  | <3% |

Additional information *For the wording of the listed hazard phrases refer to section 16.*

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

After skin contact *Instantly wash with water and soap and rinse thoroughly.*

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

Trade name: MS Clear HS

(Contd. of page 1)

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water haze. Fight larger fires with water haze or alcohol-resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections** No dangerous materials are released.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store container in a well ventilated position.  
Protect from humidity and keep away from water.
- **Storage class** 12
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · DNELs

#### 2768-02-7 Trimethoxyvinylsilane

|            |                           |                                |
|------------|---------------------------|--------------------------------|
| Dermal     | Acute systemic effect     | 0.69 mg/kg bw/day (Worker)     |
|            | Long term systemic effect | 0.69 mg/kg/dy (Worker)         |
| Inhalative | Long term systemic effect | 4.9 mg/m <sup>3</sup> (Worker) |

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

**Trade name: MS Clear HS**

(Contd. of page 2)

|   |                           |                                   |
|---|---------------------------|-----------------------------------|
|   | Acute systemic effect     | 4.9 mg/m <sup>3</sup> (Worker)    |
| <b>13822-56-5 3-(trimethoxysilyl)propylamine</b>                |                           |                                   |
| Dermal  | Acute systemic effect     | 8.3 mg/kg bw/day (Worker)         |
|   | Long term systemic effect | 8.3 mg/kg/dy (Worker)             |
| Inhalative  | Long term systemic effect | 58 mg/m <sup>3</sup> /1h (Worker) |
|   | Acute systemic effect     | 58 mg/m <sup>3</sup> (Worker)     |
| <b>52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> |                           |                                   |
| Dermal  | Acute systemic effect     | 2 mg/kg bw/day (Worker)           |
|   | Long term systemic effect | 2 mg/kg (Worker)                  |
| Inhalative  | Acute local effect        | 5.6 mg/m <sup>3</sup> (Worker)    |
|   | Long term local effect    | 5.6 mg/m <sup>3</sup> (Worker)    |

**· PNECs****2768-02-7 Trimethoxyvinylsilane**

|      |                                   |
|------|-----------------------------------|
| PNEC | 0.34 mg/l (Aqua (freshwater))     |
|      | 3.4 mg/l (Aqua (intermittent))    |
|      | 0.034 mg/l (Aqua (marine water))  |
|      | 0.27 mg/l (Freshwater sediment)   |
|      | 110 mg/l (Sewage treatment plant) |
|      | 0.046 mg/kg (Soil)                |

**13822-56-5 3-(trimethoxysilyl)propylamine**

|      |                                  |
|------|----------------------------------|
| PNEC | 0.33 mg/l (Aqua (freshwater))    |
|      | 0.033 mg/l (Aqua (marine water)) |
|      | 0.26 mg/kg (Freshwater sediment) |
|      | 13 mg/l (Sewage treatment plant) |
|      | 0.04 mg/kg (Soil)                |

**52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate**

|      |                                     |
|------|-------------------------------------|
| PNEC | 0.005 mg/l (Aqua (freshwater))      |
|      | 0.01 mg/l (Aqua (intermittent))     |
|      | 0.0005 mg/l (Aqua (marine water))   |
|      | 8.02 mg/kg (Freshwater sediment)    |
|      | 0.802 mg/kg (Marine water sediment) |
|      | 1 mg/kg (Sewage treatment plant)    |
|      | 1.6 mg/kg (Soil)                    |

**· Additional Occupational Exposure Limit Values for possible hazards during processing:**

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released during curing.

**67-56-1 methanol**

|     |   |
|-----|---|
| WEL | Short-term value: 333 mg/m <sup>3</sup> , 250 ppm |
|     | Long-term value: 266 mg/m <sup>3</sup> , 200 ppm  |
|     | Sk  |

· **Additional information:** The lists that were valid during the compilation were used as basis.

**· 8.2 Exposure controls****· Personal protective equipment****· General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

· **Breathing equipment:** Not necessary if room is well-ventilated.

**· Protection of hands:**

Protective gloves and protective skin cream.



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

Wear suitable gloves tested to EN 374.

Nitrile rubber, NBR

(Contd. on page 4)

GB

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

**Trade name: MS Clear HS**

(Contd. of page 3)

Recommended thickness of the material:  $\geq 0.8$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

Value for the permeation: Level 6 > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses (EN 166)

- **Body protection:** Protective work clothing. (EN-13034/6)

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

|         |             |
|---------|-------------|
| Form:   | Pasty       |
| Colour: | Transparent |
| Odour:  | Mild        |

- **Change in condition**

|  |                |
|--|----------------|
| Melting point/freezing point:            | Not determined |
| Initial boiling point and boiling range: | Not determined |

- **Flash point:** Not applicable

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive.

- **Density** Not determined

- **Relative density at 20 °C** 1.1

- **Solubility in / Miscibility with**

**Water:** Not miscible / difficult to mix

- **Solvent content:**

**Organic solvents:** NIL VOC

- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

- **10.2 Chemical stability**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known

- **10.4 Conditions to avoid** No further relevant information available.

- **10.5 Incompatible materials:** No further relevant information available.

- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

**2768-02-7 Trimethoxyvinylsilane**

|      |                   |   |
|------|-------------------|---|
| Oral | LD50              | 7,120 mg/kg (Rat)   |
|      | OECD Test No. 405 | (Rabbit) (Acute Eye irritation / corrosion: Non irritant) |

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

**Trade name: MS Clear HS**

(Contd. of page 4)

|   |          |  |
|---|----------|--|
| <b>13822-56-5 3-(trimethoxysilyl)propylamine</b>                |          |  |
|   | OECD 437 | <3 (Bovine Cornea) (OCED Test No. 437) |
| <b>870-08-6 dioctyltin oxide</b>                                |          |  |
| Oral  | LD50     | 2,500 mg/kg (Rat)                      |
| <b>52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> |          |  |
| Oral  | LD50     | >2,000 mg/kg (Rat) (OECD 423)          |
| Dermal  | LD50     | >3,170 mg/kg (Rat) (OECD 402)          |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
In-vitro irritancy tests (OECD 437) were performed with a score  $\leq 3$ , thereby not requiring classification for eye irritation or serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

|   |   |
|---|---|
| <b>2768-02-7 Trimethoxyvinylsilane</b>                          |   |
| EC10  | 1,000 (Pseudomonas Putida) (5 hours)  |
| EC50 (48 hr)  | 169 mg/l (Daphnia magna)  |
| EC50 (72 hr)  | 210 mg/l (Selenastrum capricornutum)  |
|   | >957 mg/l (Desmodesmus subspicatus) (EU Method C.3)                           |
| LC50 (96 hr)  | 191 mg/l (Oncorhynchus mykiss)  |
| NOEC (72 hr)  | 25 mg/l (Selenastrum capricornutum)   |
| NOEC (21 days)  | 28 mg/l (Daphnia magna) (Reproduction)  |
| <b>13822-56-5 3-(trimethoxysilyl)propylamine</b>                |   |
| EC50 (48 hr)  | 331 mg/l (Daphnia magna) (OECD 202)   |
| EC50 (72 hr)  | >1,000 mg/l (Desmodesmus subspicatus) (EU Method C.3 (Algal Inhibition test)) |
| LC50 (96 hr)  | >934 mg/l (Danio rerio (Zebra fish; semistatic)) (OECD 203)                   |
| <b>52829-07-9 Bis 2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> |   |
| EC50 (24 hr)  | 17 mg/l (Daphnia magna) (OECD 202)  |
| EC50  | 1.9 mg/l (Algae (Scenedesmus subspicatus)) (DIR 92/69/EC)                     |
| EC50 (72 hr)  | 0.705 mg/l (Pseudokirchneriella subcapitata)                                  |
| LC50  | 5,290 ug/l (Fish)   |
|   | 0.013 ug/l (Oncorhynchus mykiss) (OECD 203)                                   |
| LC50 (48 hr)  | 8.58 mg/l (Daphnia magna)   |

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

GB

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

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Revision: 02.08.2019

Trade name: MS Clear HS

(Contd. of page 5)

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

· **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

|          |   |
|----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products)   |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09   |

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

#### 14.1 UN-Number

NOT REGULATED

· ADR, ADN, IMDG, IATA

Void

#### 14.2 UN proper shipping name

· ADR

NOT REGULATED

Void

· ADN, IMDG, IATA

Void

#### 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class

Void

#### 14.4 Packing group

NOT REGULATED

· ADR, IMDG, IATA

Void

#### 14.5 Environmental hazards:

· Marine pollutant:

No

#### 14.6 Special precautions for user

Not applicable.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

Void

### SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

· **Department issuing data specification sheet:** Environment protection department

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.08.2019

Version number 46

Revision: 02.08.2019

**Trade name: MS Clear HS**

(Contd. of page 6)

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**· Data compared to the previous version altered. \***

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