



Das Original

# DIRKO™ HT Black ProfiPress

## Safety Data Sheet

according to UK REACH

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : DIRKO™ HT Black ProfiPress  
Product code : 471.501 (200 ml)

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Use of the substance/mixture : Sealants

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer (Germany)

ElringKlinger AG  
Max-Eyth-Straße 2  
72581 Dettingen/Erms - Germany  
T +49 (0)7123 724 799  
[det.iam.sdb@elringklinger.com](mailto:det.iam.sdb@elringklinger.com)

##### Supplier

##### Manufacturer (England)

Elring Parts Ltd  
Unit 2, Derwent Court  
Earlsway Team Valley Trading Estate  
Gateshead  
Tyne and Wear  
NE11 TF - England  
Sales T +44 191 4915678 - F +44 191 4875001  
[sales@elringparts.co.uk](mailto:sales@elringparts.co.uk)

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: [sds@dlac-gmbh.de](mailto:sds@dlac-gmbh.de)

#### 1.4. Emergency telephone number

| Country | Organisation/Company                                                                           | Address                                  | Emergency number |
|---------|------------------------------------------------------------------------------------------------|------------------------------------------|------------------|
| Germany | Giftinformationszentrum (GIZ-Nord)<br>Universitätsmedizin Göttingen - Georg-August-Universität | Robert-Koch Straße 40<br>37075 Göttingen | +49 551 19240    |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP

Aerosol, Category 3 H229  
Specific target organ toxicity - Repeated exposure, Category 1 H372

Full text of H-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated.

Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use.

#### 2.2. Label elements

##### Labelling according to GB CLP

Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use. Although the product is classified according to CLP criteria, no labelling is required according to Article 23 in conjunction with Annex I (Section 1.3.4.1) of GB CLP.

Signal word (CLP) : Warning  
Hazard statements (CLP) : H229 - Pressurised container: May burst if heated.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 - Do not pierce or burn, even after use.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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EUH phrases : EUH208 - Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

### 2.3. Other hazards

Contains PBT/vPvB substances assessed in accordance with UK REACH Annex XIII: Octamethylcyclotetrasiloxane (556-67-2). The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

#### Substances formed under the conditions of use:

| Name                   | Product identifier                                               | %   | Classification according to GB CLP                                 |
|------------------------|------------------------------------------------------------------|-----|--------------------------------------------------------------------|
| 2-Pentanone, oxime     | (CAS No) 623-40-5<br>(EC No) 484-470-6                           | ≤ 5 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>STOT RE 2, H373 |
| Ethanol, ethyl alcohol | (CAS No) 64-17-5<br>(EC No) 200-578-6<br>(Index No) 603-002-00-5 | ≤ 1 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                           |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                  | Product identifier                                                | %              | Classification according to GB CLP                                                          |
|-----------------------------------------------------------------------|-------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Quartz                                                                | (CAS No) 14808-60-7<br>(EC No) 238-878-4                          | 20 - < 50      | STOT RE 1, H372                                                                             |
| Silica                                                                | (CAS No) 112945-52-5<br>(EC No) 601-216-3                         | 5 - < 10       | Not classified                                                                              |
| 2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime                      | (CAS No) 58190-62-8<br>(EC No) 700-810-0                          | 1 - < 5        | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319                                             |
| 2-Pentanone, O,O',O''-(methylsilyldiyl)trioxime                       | (CAS No) 37859-55-5<br>(EC No) 484-460-1                          | 1 - < 5        | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319                                             |
| 3-aminopropyltriethoxysilane                                          | (CAS No) 919-30-2<br>(EC No) 213-048-4<br>(Index No) 612-108-00-0 | 0.1 - < 1      | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317 |
| Octamethylcyclotetrasiloxane<br>(substance listed as REACH Candidate) | (CAS No) 556-67-2<br>(EC No) 209-136-7<br>(Index No) 014-018-00-1 | 0.01 - < 0.079 | Flam. Liq. 3, H226<br>Repr. 2, H361f<br>Aquatic Chronic 1, H410 (M=10)                      |

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position. |
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                                                                                                                                        |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.                                                                                                                                                  |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                                                                                                            |
| First-aid measures after ingestion    | : Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.                                                                                                                                                                           |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |                                                                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/injuries after skin contact | : The product is not considered irritating to the skin. May produce an allergic reaction.                                                      |
| Symptoms/injuries                    | : Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use. |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Use extinguishing agents that suit the environment. Carbon dioxide. Extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                                                                                                                       |

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

|                                                  |                                                                             |
|--------------------------------------------------|-----------------------------------------------------------------------------|
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide. Toxic gases and vapours. Silicon oxides. |
| Explosion hazard                                 | : Pressurised container: May burst if heated.                               |

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### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

## SECTION 6: Accidental release measures

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

- General measures : Provide adequate ventilation. Do not breathe vapours. If spilled, may cause the floor to be slippery.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Contain the spilled material by bunding.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations.

### 6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Quartz (14808-60-7)                                           |                 |                                                         |
|---------------------------------------------------------------|-----------------|---------------------------------------------------------|
| United Kingdom                                                | Local name      | Silica, respirable crystalline (Quartz)                 |
| United Kingdom                                                | WEL TWA (mg/m³) | 0.1 mg/m³ (respirable dust)                             |
| United Kingdom                                                | Notes           | Carc (where generated as a result of a work process)    |
| Ethanol, ethyl alcohol (64-17-5)                              |                 |                                                         |
| United Kingdom                                                | Local name      | Ethanol                                                 |
| United Kingdom                                                | WEL TWA (mg/m³) | 1920 mg/m³                                              |
| United Kingdom                                                | WEL TWA (ppm)   | 1000 ppm                                                |
| Silicon dioxide (112945-52-5)                                 |                 |                                                         |
| United Kingdom                                                | Local name      | Silica, amorphous                                       |
| United Kingdom                                                | WEL TWA (mg/m³) | 6 mg/m³ (inhalable dust)<br>2.4 mg/m³ (respirable dust) |
| 2-Pentanone, O,O',O''-(ethenylsilyldiyn)trioxime (58190-62-8) |                 |                                                         |
| DNEL/DMEL (Workers)                                           |                 |                                                         |
| Long-term - systemic effects, dermal                          |                 | 0.065 mg/kg bodyweight/day                              |
| Long-term - systemic effects, inhalation                      |                 | 0.229 mg/m³                                             |

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### 2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime (58190-62-8)

|                                          |                            |
|------------------------------------------|----------------------------|
| DNEL/DMEL (General population)           |                            |
| Long-term - systemic effects, dermal     | 0.033 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.057 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral       | 0.033 mg/kg bodyweight/day |
| PNEC (Water)                             |                            |
| PNEC aqua (freshwater)                   | 0.103 mg/l                 |
| PNEC aqua (marine water)                 | 0.01 mg/l                  |
| PNEC (Sediment)                          |                            |
| PNEC sediment (freshwater)               | 0.586 mg/kg dwt            |
| PNEC sediment (marine water)             | 0.059 mg/kg dwt            |
| PNEC (Soil)                              |                            |
| PNEC soil                                | 0.046 mg/kg dwt            |
| PNEC (STP)                               |                            |
| PNEC sewage treatment plant              | 2.22 mg/l                  |

### 2-Pentanone, O,O',O''-(methylsilyldiyl)trioxime (37859-55-5)

|                                          |                            |
|------------------------------------------|----------------------------|
| DNEL/DMEL (Workers)                      |                            |
| Long-term - systemic effects, dermal     | 0.065 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.229 mg/m <sup>3</sup>    |
| DNEL/DMEL (General population)           |                            |
| Long-term - systemic effects, dermal     | 0.033 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.057 mg/m <sup>3</sup>    |
| Long-term - systemic effects, oral       | 0.033 mg/kg bodyweight/day |
| PNEC (Water)                             |                            |
| PNEC aqua (freshwater)                   | 0.1 mg/l                   |
| PNEC aqua (marine water)                 | 0.01 mg/l                  |
| PNEC (Sediment)                          |                            |
| PNEC sediment (freshwater)               | 0.569 mg/kg dwt            |
| PNEC sediment (marine water)             | 0.057 mg/kg dwt            |
| PNEC (Soil)                              |                            |
| PNEC soil                                | 0.044 mg/kg dwt            |
| PNEC (STP)                               |                            |
| PNEC sewage treatment plant              | 2.15 mg/l                  |

### 3-aminopropyltriethoxysilane (919-30-2)

|                                          |                        |
|------------------------------------------|------------------------|
| DNEL/DMEL (Workers)                      |                        |
| Long-term - systemic effects, dermal     | 2 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 14 mg/m <sup>3</sup>   |
| DNEL/DMEL (General population)           |                        |
| Long-term - systemic effects, dermal     | 1 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 3.5 mg/m <sup>3</sup>  |
| Long-term - systemic effects, oral       | 1 mg/kg bodyweight/day |
| PNEC (Water)                             |                        |
| PNEC aqua (freshwater)                   | 0.5 mg/l               |
| PNEC aqua (marine water)                 | 0.05 mg/l              |
| PNEC aqua (intermittent, freshwater)     | 2.05 mg/l              |
| PNEC (Sediment)                          |                        |
| PNEC sediment (freshwater)               | 1.8 mg/kg dwt          |
| PNEC sediment (marine water)             | 0.18 mg/kg dwt         |
| PNEC (Soil)                              |                        |
| PNEC soil                                | 0.069 mg/kg dwt        |

### Octamethylcyclotetrasiloxane (556-67-2)

|                                          |                          |
|------------------------------------------|--------------------------|
| DNEL/DMEL (Workers)                      |                          |
| Long-term - systemic effects, inhalation | 73 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation    | 73 mg/m <sup>3</sup>     |
| DNEL/DMEL (General population)           |                          |
| Long-term - systemic effects, oral       | 3.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 13 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation    | 13 mg/m <sup>3</sup>     |
| PNEC (Water)                             |                          |

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### Octamethylcyclotetrasiloxane (556-67-2)

|                                 |               |
|---------------------------------|---------------|
| PNEC aqua (freshwater)          | 0.0015 mg/l   |
| PNEC aqua (marine water)        | 0.00015 mg/l  |
| PNEC (Sediment)                 |               |
| PNEC sediment (freshwater)      | 3 mg/kg dwt   |
| PNEC sediment (marine water)    | 0.3 mg/kg dwt |
| PNEC (Soil)                     |               |
| PNEC soil                       | 4.2 mg/kg dwt |
| PNEC (Oral)                     |               |
| PNEC oral (secondary poisoning) | 41 mg/kg food |
| PNEC (STP)                      |               |
| PNEC sewage treatment plant     | 10 mg/l       |

### 8.2. Exposure controls

|                                  |                                                                                                                                                                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Provide local exhaust or general room ventilation to minimize vapour concentrations.                                                                                                                                                                                            |
| Hand protection                  | : Wear suitable gloves (EN 374 or equivalent). Short-term contact: nitrile/neoprene, $\geq 0.2$ mm. Prolonged or repeated contact: nitrile, $\geq 1.25$ mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| Eye protection                   | : Chemical goggles or safety glasses (EN ISO 16321 or equivalent).                                                                                                                                                                                                                |
| Skin and body protection         | : Wear suitable protective clothing (EN 14605, EN 13982 or equivalent).                                                                                                                                                                                                           |
| Respiratory protection           | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type ABEK (EN 14387 or equivalent).                                                                                                   |
| Environmental exposure controls  | : Avoid release to the environment.                                                                                                                                                                                                                                               |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                              |                                                                                                                                                           |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                                   | : Solid. Paste. Black.                                                                                                                                    |
| Odour                                        | : No data available                                                                                                                                       |
| Odour threshold                              | : No data available                                                                                                                                       |
| pH                                           | : No data available                                                                                                                                       |
| Melting point/freezing point                 | : No data available                                                                                                                                       |
| Initial boiling point and boiling range      | : No data available                                                                                                                                       |
| Flash point                                  | : No data available                                                                                                                                       |
| Evaporation rate                             | : No data available                                                                                                                                       |
| Flammability (solid, gas)                    | : No data available                                                                                                                                       |
| Upper/lower flammability or explosive limits | : No data available                                                                                                                                       |
| Vapour pressure                              | : No data available                                                                                                                                       |
| Vapour density                               | : No data available                                                                                                                                       |
| Relative density                             | : No data available                                                                                                                                       |
| Density                                      | : $\sim 1.19 \text{ kg/dm}^3$ (20 °C)                                                                                                                     |
| Solubility(ies)                              | : Water: practically insoluble<br>Acetone, Alcohol: slightly soluble<br>Aliphatic/aromatic hydrocarbons: dispersible<br>Chlorinated solvents: dispersible |
| Partition coefficient: n-octanol/water       | : No data available                                                                                                                                       |
| Auto-ignition temperature                    | : No data available                                                                                                                                       |
| Decomposition temperature                    | : No data available                                                                                                                                       |
| Viscosity                                    | : No data available                                                                                                                                       |
| Explosive properties                         | : Pressurised container: May burst if heated.                                                                                                             |
| Oxidising properties                         | : None                                                                                                                                                    |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vulcanizes at room temperature and on contact with humidity. Pressurised container: May burst if heated.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

None under normal use.

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### 10.4. Conditions to avoid

High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidizing agents. Water.

### 10.6. Hazardous decomposition products

In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapours. Silicon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
Based on available data, the classification criteria are not met

#### 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)

|                 |                   |
|-----------------|-------------------|
| LD50 oral rat   | 1000 - 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg      |

#### 2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

|                 |              |
|-----------------|--------------|
| LD50 oral rat   | 1234 mg/kg   |
| LD50 dermal rat | > 2000 mg/kg |

#### 3-aminopropyltriethoxysilane (919-30-2)

|                               |                              |
|-------------------------------|------------------------------|
| LD50 oral rat                 | 1490 mg/kg                   |
| LD50 dermal rabbit            | 4076 mg/kg                   |
| LC50 inhalation rat (Vapours) | > 145 mg/m <sup>3</sup> /6 h |

#### Octamethylcyclotetrasiloxane (556-67-2)

|                                 |              |
|---------------------------------|--------------|
| LD50 oral rat                   | > 4800 mg/kg |
| LD50 dermal rat                 | > 2375 mg/kg |
| LC50 inhalation rat (Dust/Mist) | 36 mg/l/4 h  |

|                                                     |                                                                                                                                                |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation                           | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Serious eye damage/irritation                       | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Respiratory or skin sensitisation                   | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Germ cell mutagenicity                              | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Carcinogenicity                                     | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Reproductive toxicity                               | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Specific target organ toxicity (single exposure)    | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Specific target organ toxicity (repeated exposure)  | : Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use. |
| Aspiration hazard                                   | : Not classified<br>Based on available data, the classification criteria are not met                                                           |
| Potential adverse human health effects and symptoms | : Endocrine disruption for human health: The mixture has no endocrine disrupting properties.                                                   |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute aquatic toxicity   | : Not classified                                                                                                                                                                                      |
| Chronic aquatic toxicity | : Not classified<br>The maximum concentration of octamethylcyclotetrasiloxane (556-67-2) that can leach from the product is below the established safety level (< 0.0079 mg/l) for aquatic organisms. |

#### 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)

|              |                                        |
|--------------|----------------------------------------|
| LC50 fish    | > 100 mg/l 96 h, Oncorhynchus mykiss   |
| EC50 daphnia | > 100 mg/l 48 h, Daphnia magna         |
| ErC50 algae  | 88 mg/l 72 h, Raphidocelis subcapitata |
| NOEC algae   | 32 mg/l 72 h, Raphidocelis subcapitata |

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### 2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

|              |                                        |
|--------------|----------------------------------------|
| LC50 fish    | > 100 mg/l 96 h, Oncorhynchus mykiss   |
| EC50 daphnia | > 100 mg/l 48 h, Daphnia magna         |
| ErC50 algae  | 88 mg/l 72 h, Raphidocelis subcapitata |
| NOEC algae   | 32 mg/l 72 h, Raphidocelis subcapitata |

### 3-aminopropyltriethoxysilane (919-30-2)

|              |                                           |
|--------------|-------------------------------------------|
| LC50 fish    | > 934 mg/l 96 h, Danio rerio              |
| EC50 daphnia | 331 mg/l 48 h, Daphnia magna              |
| EC50 algae   | > 1000 mg/l 72 h, Desmodesmus subspicatus |
| NOEC daphnia | > 11.9 mg/l 21 d, Daphnia magna           |
| NOEC algae   | 1.3 mg/l 72 h, Desmodesmus subspicatus    |

### Octamethylcyclotetrasiloxane (556-67-2)

|              |                                             |
|--------------|---------------------------------------------|
| LC50 fish    | > 0.022 mg/l 96 h, Oncorhynchus mykiss      |
| EC50 daphnia | > 0.015 mg/l 48 h, Daphnia magna            |
| EC50 algae   | > 0.022 mg/l 96 h, Raphidocelis subcapitata |
| NOEC fish    | ≥ 0.0044 mg/l 93 d, Oncorhynchus mykiss     |
| NOEC daphnia | ≥ 0.015 mg/l 21 d, Daphnia magna            |
| NOEC algae   | < 0.022 mg/l 96 h, Raphidocelis subcapitata |

## 12.2. Persistence and degradability

### 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation                | 1 %, 28 d (OECD 301 B)     |

### 2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation                | 1 %, 28 d (OECD 301 B)     |

### 3-aminopropyltriethoxysilane (919-30-2)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation                | 67 %, 28 d (OECD 301 A)    |

### Octamethylcyclotetrasiloxane (556-67-2)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation                | 3.7 %, 29 d (OECD 310)     |

## 12.3. Bioaccumulative potential

### 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)

|                                     |            |
|-------------------------------------|------------|
| Bioconcentration factor (BCF REACH) | 69.21 l/kg |
|-------------------------------------|------------|

### 2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

|                                     |            |
|-------------------------------------|------------|
| Bioconcentration factor (BCF REACH) | 103.3 l/kg |
|-------------------------------------|------------|

### 3-aminopropyltriethoxysilane (919-30-2)

|                                     |                  |
|-------------------------------------|------------------|
| Bioconcentration factor (BCF REACH) | 3.4 (OECD 305 C) |
|-------------------------------------|------------------|

### Octamethylcyclotetrasiloxane (556-67-2)

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| Bioconcentration factor (BCF REACH)             | 12400 l/kg (EPA OTS 797.1520) |
| Partition coefficient n-octanol/water (Log Pow) | 6.98 (21.7 °C)                |

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

Contains PBT/vPvB substances assessed in accordance with UK REACH Annex XIII: Octamethylcyclotetrasiloxane (556-67-2).

## 12.6. Other adverse effects

Endocrine disruption for the environment : The mixture has no endocrine disrupting properties.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |                                                                                                                           |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)   | : Dispose in a safe manner in accordance with local/national regulations.                                                 |
| Waste treatment methods        | : Dispose of this material and its container at hazardous or special waste collection point. Do not empty into drains.    |
| Waste disposal recommendations | : Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing. |

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Waste code : The valid LoW waste code numbers are source related. The manufacturer is therefore unable to specify LoW waste codes for the articles or products used in the various sectors. The LoW codes listed are intended as a recommendation for users.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

#### 14.1. UN number

UN-No. (ADR) : UN 1950  
UN-No. (IMDG) : UN 1950  
UN-No. (IATA) : UN 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS  
Proper Shipping Name (IMDG) : AEROSOLS  
Proper Shipping Name (IATA) : Aerosols, non-flammable  
Transport document description (ADR) : UN 1950 AEROSOLS, 2.2, (E)  
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.2  
Transport document description (IATA) : UN 1950 Aerosols, non-flammable, 2.2

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 2.2  
Danger labels (ADR) : 2.2



##### IMDG

Transport hazard class(es) (IMDG) : 2.2  
Danger labels (IMDG) : 2.2



##### IATA

Transport hazard class(es) (IATA) : 2.2  
Danger labels (IATA) : 2.2



#### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR) : 5A  
Special provisions (ADR) : 190, 327, 344, 625  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P207, LP200

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|                                                                         |                 |
|-------------------------------------------------------------------------|-----------------|
| Special packing provisions (ADR)                                        | : PP87, RR6, L2 |
| Mixed packing provisions (ADR)                                          | : MP9           |
| Transport category (ADR)                                                | : 3             |
| Special provisions for carriage - Packages (ADR)                        | : V14           |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV9, CV12     |
| Tunnel restriction code (ADR)                                           | : E             |

### Transport by sea

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Special provisions (IMDG)         | : 63, 190, 277, 327, 344, 381, 959 |
| Limited quantities (IMDG)         | : SP277                            |
| Excepted quantities (IMDG)        | : E0                               |
| Packing instructions (IMDG)       | : P207, LP200                      |
| Special packing provisions (IMDG) | : PP87, L2                         |
| EmS-No. (Fire)                    | : F-D                              |
| EmS-No. (Spillage)                | : S-U                              |
| Stowage category (IMDG)           | : None                             |
| Stowage and handling (IMDG)       | : SW1, SW22                        |
| Segregation (IMDG)                | : SG69                             |

### Air transport

|                                              |                         |
|----------------------------------------------|-------------------------|
| PCA Excepted quantities (IATA)               | : E0                    |
| PCA Limited quantities (IATA)                | : Y203                  |
| PCA limited quantity max net quantity (IATA) | : 30kgG                 |
| PCA packing instructions (IATA)              | : 203                   |
| PCA max net quantity (IATA)                  | : 75kg                  |
| CAO packing instructions (IATA)              | : 203                   |
| CAO max net quantity (IATA)                  | : 150kg                 |
| Special provisions (IATA)                    | : A98, A145, A167, A802 |
| ERG code (IATA)                              | : 2L                    |

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

Not applicable

## SECTION 15: Regulatory information

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

Contains no substance(s) listed on UK REACH Annex XIV (Authorisation List).

Contains substance(s) listed on the UK REACH Candidate List: Octamethylcyclotetrasiloxane (556-67-2).

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data sources                             | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720 as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020. |
| Changes compared to the previous version | : Section 2.3<br>Section 3.2<br>Section 6.1 + 6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Abbreviations and acronyms:

|        |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road                                                                                                                                                                                                                                                                                                                                         |
| DMEL   | Derived Minimal Effect Level                                                                                                                                                                                                                                                                                                                                                                                                |
| DNEL   | Derived No-Effect Level                                                                                                                                                                                                                                                                                                                                                                                                     |
| EC50   | The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)                                                                                                                                                                                                                                                                                                           |
| GB CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended and changed through the Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720 as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020. |
| IATA   | International Air Transport Association                                                                                                                                                                                                                                                                                                                                                                                     |

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|          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMDG     | "International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea                                                                                                                                                                                                                                                                                                                                                 |
| LC50     | Lethal Concentration to 50 % of a test population (Median Lethal Concentration)                                                                                                                                                                                                                                                                                                                                                           |
| LD50     | Lethal Dose to 50% of a test population (Median Lethal Dose)                                                                                                                                                                                                                                                                                                                                                                              |
| NOEC/L   | No Observed Effect Concentration/Level                                                                                                                                                                                                                                                                                                                                                                                                    |
| OECD     | Organisation for Economic Cooperation and Development                                                                                                                                                                                                                                                                                                                                                                                     |
| PBT      | Persistent, Bioaccumulative and Toxic substance                                                                                                                                                                                                                                                                                                                                                                                           |
| PNEC     | Predicted No-Effect Concentration                                                                                                                                                                                                                                                                                                                                                                                                         |
| REACH    | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                                                                                                                                                                                                                                          |
| SDS      | Safety Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                         |
| STP      | Sewage Treatment Plant                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UK REACH | Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended and changed through the Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720 as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020. |
| vPvB     | Very Persistent and Very Bioaccumulative                                                                                                                                                                                                                                                                                                                                                                                                  |

Full text of H- and EUH-phrases:

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                  |
| Aquatic Chronic 1   | Hazardous to the aquatic environment — Chronic Hazard, Category 1  |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                      |
| Flam. Liq. 2        | Flammable liquids, Category 2                                      |
| Flam. Liq. 3        | Flammable liquids, Category 3                                      |
| Repr. 2             | Reproductive toxicity, Category 2                                  |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1B                             |
| Skin Sens. 1B       | Skin sensitisation, Category 1B                                    |
| STOT RE 1           | Specific target organ toxicity — Repeated exposure, Category 1     |
| STOT RE 2           | Specific target organ toxicity — Repeated exposure, Category 2     |
| H225                | Highly flammable liquid and vapour.                                |
| H226                | Flammable liquid and vapour.                                       |
| H229                | Pressurised container: May burst if heated.                        |
| H302                | Harmful if swallowed.                                              |
| H314                | Causes severe skin burns and eye damage.                           |
| H317                | May cause an allergic skin reaction.                               |
| H318                | Causes serious eye damage.                                         |
| H319                | Causes serious eye irritation.                                     |
| H361f               | Suspected of damaging fertility.                                   |
| H372                | Causes damage to organs through prolonged or repeated exposure.    |
| H373                | May cause damage to organs through prolonged or repeated exposure. |
| H410                | Very toxic to aquatic life with long lasting effects.              |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.