# **SAFETY DATA SHEET**



ARBOSIL® HDLMS Grey

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

### 1.1 Product identifier

- Product name
- : ARBOSIL® HDLMS Grey

Product description

- : Sealants
- Other means of identification
- : Not available.

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

| Identified uses              |        |
|------------------------------|--------|
| Sealants                     |        |
| Uses advised against         | Reason |
| For professional users only. | -      |

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

| Adshead Ratcliffe & Co. Ltd.                      |                              |
|---|------------------------------|
| Derby Road, Belper                                |                              |
| Derbyshire.                                       |                              |
| DE56 1WJ  |                              |
| +44 (0)1773 826661                                |                              |
| e-mail address of person responsible for this SDS | : SDSQueries@carlisleccm.com |

### **1.4 Emergency telephone number**

### National advisory body/Poison Centre

| Telephone number | <ul> <li>National Poisons Information Service (NPIS)<br/>Tel: 0344 892 0111 (for healthcare professionals only)<br/>Website: http://www.npis.org/<br/>Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24<br/>by dialling 111. In Northern Ireland contact your local GP.</li> </ul> |
|------------------|--|
|                  |  |

### Supplier

| Telephone number | : +44 (0)1773 826661         |
|------------------|------------------------------|
|                  | (Office hours: 8.30 - 17.00) |

### **SECTION 2: Hazards identification**

| 2.1 Classification of the su    | ubstance or mixture |
|---------------------------------|---------------------|
| Product definition              | : Mixture           |
| <b>Classification according</b> | to UK CLP/GHS       |
| Not classified.                 |                     |

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended. See Section 11 for more detailed information on health effects and symptoms.

| 2.2 Label elements             |   |                          |             |      |
|--------------------------------|---|--------------------------|-------------|------|
| Signal word                    | : No signal word.                             |                          |             |      |
| Hazard statements              | : No known significant effects or critication | al hazards.              |             |      |
| Precautionary statements       |   |                          |             |      |
| Prevention                     | : Not applicable.                             |                          |             |      |
| Date of issue/Date of revision | 18 December 2023 Date of previous issue       | : No previous validation | Version : 1 | 1/15 |

| Response  | 1  | Not applicable.   |
|---|----|---|
| Storage   | 1  | Not applicable.   |
| Disposal  | :  | Not applicable.   |
| Supplemental label elements   | :  | Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.<br>Safety data sheet available on request.   |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | :  | Not applicable.   |
| Special packaging requirem  | en | <u>ts</u>   |
| Containers to be fitted<br>with child-resistant<br>fastenings   | :  | Not applicable.   |
| Tactile warning of danger   | :  | Not applicable.   |
| 2.3 Other hazards   |    |   |
| Product meets the criteria<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>1907/2006, Annex XIII  | :  | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   |
| Other hazards which do not result in classification   | :  | Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as<br>harmful if swallowed, causes serious eye irritation, may cause damage to blood/<br>spleen through prolonged/repeated exposure and is harmful to aquatic life with long<br>lasting effects.<br>Curing process may release a small amount of methanol which is irritating to<br>mucous membranes and has skin drying and narcotic effects. |

## **SECTION 3: Composition/information on ingredients**

| Product/ingredient name                                       | Identifiers   | %         | Classification  | Туре    |
|---|---|-----------|---|---------|
| Limestone   | EC: 215-279-6<br>CAS: 1317-65-3   | ≥25 - ≤50 | Not classified.   | [2]     |
| silicon dioxide   | REACH #:<br>01-2119379499-16<br>EC: 231-545-4<br>CAS: 7631-86-9                                   | ≤10       | Not classified.   | [2]     |
| 2-Pentanone, 2,2',2"-[O,O',O"-<br>(methylsilylidyne)trioxime] | REACH #:<br>01-2120004323-76<br>EC: 484-460-1   | ≤5        | Acute Tox. 4, H302<br>Eye Irrit. 2, H319  | [1]     |
| titanium dioxide  | REACH #:<br>01-2119489379-17<br>EC: 236-675-5<br>CAS: 13463-67-7<br>Index: 022-006-00-2           | ≤0.3      | Not classified.   | [2]     |
| dioctyltin dilaurate  | UK (GB) REACH #: UK-<br>01-4760535389-6<br>EC: 222-883-3<br>CAS: 3648-18-8<br>Index: 050-031-00-9 | <0.3      | Repr. 1B, H360D<br>STOT RE 1, H372<br>(immune system)   | [1] [2] |
| toluene   | EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3   | ≤0.1      | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>(central nervous | [1] [2] |

### **SECTION 3: Composition/information on ingredients**

| SECTION 5. Compositio                                    |  | ngreulents |   |         |
|--|--|------------|---|---------|
|  |  |            | system (CNS))<br>(inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412                        |         |
| Silane, dichlorodimethyl-, reaction products with silica | REACH #:<br>01-2119379499-16<br>EC: 271-893-4<br>CAS: 68611-44-9 | ≤0.1       | Not classified.   | [2]     |
| methanol   | EC: 200-659-6<br>CAS: 67-56-1<br>Index: 603-001-00-X             | <0.1       | Flam. Liq. 2, H225<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>STOT SE 1, H370 | [1] [2] |
|  |  |            | See Section 16 for<br>the full text of the H<br>statements declared<br>above.                           |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

| 4.1 Description of mist alu n |  |
|-------------------------------|--|
| Eye contact                   | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.  |
| Inhalation                    | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur.   |
| Skin contact                  | <ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and<br/>shoes. Get medical attention if symptoms occur.</li> </ul>   |
| Ingestion                     | : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders    | : No action shall be taken involving any personal risk or without suitable training.   |

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

#### Over-exposure signs/symptoms

| Eye contact  | : Slightly irritating to the eyes. |
|--------------|------------------------------------|
| Inhalation   | : No specific data.                |
| Skin contact | : May cause skin sensitisation.    |
| Ingestion    | : No specific data.                |

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

| Notes to physician | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.<br/>Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as</li> </ul> |
|--------------------|---|
|                    | harmful if swallowed, causes serious eye irritation and may cause damage to blood/<br>spleen through prolonged/repeated exposure.   |
|                    | Curing process may release a small amount of methanol which is irritating to mucous membranes and has skin drying and narcotic effects.   |

### **SECTION 4: First aid measures**

**Specific treatments** : Antidote for methanol poisoning is ethanol.

### **SECTION 5: Firefighting measures**

| : | Use an extinguishing agent suitable for the surrounding fire.   |
|---|---|
| : | None known.   |
| m | the substance or mixture  |
| : | No specific fire or explosion hazard.   |
| : | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>metal oxide/oxides  |
|   |   |
| : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   | :<br>:<br>:   |

### **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, pro   | te | ctive equipment and emergency procedures   |
|---------------------------------|----|--|
| For non-emergency<br>personnel  | :  | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilt material. Put on appropriate personal<br>protective equipment.   |
| For emergency responders        | :  | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| 6.2 Environmental precautions   | :  | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains<br>and sewers. Inform the relevant authorities if the product has caused environmental<br>pollution (sewers, waterways, soil or air).  |
| 6.3 Methods and material for    | со | ntainment and cleaning up  |
| Small spill                     | :  | Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.   |
| Large spill                     | :  | Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |
| 6.4 Reference to other sections | :  | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>See Section 13 for additional waste treatment information.  |

### SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures
Advice on general occupational hygiene
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

**:** Not available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name                      | Exposure limit values                                      |
|--|--|
| Limestone                                    | EH40/2005 WELs (United Kingdom (UK), 1/2020). [calcium     |
|  | carbonate inhalable dust/respirable dust]                  |
|  | TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable dust    |
|  | TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust    |
|  | EH40/2005 WELs (United Kingdom (UK), 1/2020). [limestone   |
|  | total inhalable/respirable]                                |
|  | TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable         |
|  | TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable   |
| silicon dioxide                              | EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica,     |
|  | amorphous inhalable dust/respirable dust]                  |
|  | TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: respirable dust  |
|  | TWA: 6 mg/m <sup>3</sup> 8 hours. Form: inhalable dust     |
| titanium dioxide                             | EH40/2005 WELs (United Kingdom (UK), 1/2020).              |
|  | TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable         |
|  | TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable   |
| dioctyltin dilaurate                         | EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin         |
|  | compounds, organic, except cyhexatin (ISO) as Sn] Absorbed |
|  | through skin.  |
|  | STEL: 0.2 mg/m³, (as Sn) 15 minutes.                       |
|  | TWA: 0.1 mg/m³, (as Sn) 8 hours.                           |
| toluene                                      | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed     |
|  | through skin.  |
|  | STEL: 384 mg/m <sup>3</sup> 15 minutes.                    |
|  | TWA: 191 mg/m <sup>3</sup> 8 hours.                        |
|  | TWA: 50 ppm 8 hours.                                       |
|  | STEL: 100 ppm 15 minutes.                                  |
| Silane, dichlorodimethyl-, reaction products | EH40/2005 WELs (United Kingdom (UK), 1/2020).              |
| with silica                                  | TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: Respirable dust  |
|  | TWA: 6 mg/m <sup>3</sup> 8 hours. Form: inhalable dust     |
| methanol                                     | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed     |
|  | through skin.  |

### **SECTION 8: Exposure controls/personal protection**

| - |   |  |
|---|---|--|
|   | STEL: 333 mg/m <sup>3</sup> 15 minutes. |  |
|   | STEL: 250 ppm 15 minutes.               |  |
|   | TWA: 266 mg/m <sup>3</sup> 8 hours.     |  |
|   | TWA: 200 ppm 8 hours.                   |  |
|   |   |  |

### **Biological exposure indices**

No exposure indices known.

| Recommended monitoring | 1 | Reference should be made to appropriate monitoring standards. Reference to |
|------------------------|---|--|
| procedures             |   | national guidance documents for methods for the determination of hazardous |
|                        |   | substances will also be required.  |

### **DNELs/DMELs**

| Product/ingredient name        | Туре  | Exposure          | Value                  | Population | Effects   |
|--------------------------------|-------|-------------------|------------------------|------------|-----------|
| 2-Pentanone, 2,2',2"-[O,O',O"- | DNEL  | Long term         | 0.229 mg/              | Workers    | Systemic  |
| (methylsilylidyne)trioxime]    |       | Inhalation        | m³                     |            | ,         |
|                                | DNEL  | Long term Dermal  | 0.065 mg/              | Workers    | Systemic  |
|                                |       |                   | kg bw/day              |            | ,         |
| dioctyltin dilaurate           | DNEL  | Long term Oral    | 0.0005 mg/             | General    | Systemic  |
|                                |       | Ū.                | kg bw/day              | population |           |
|                                | DNEL  | Long term         | 0.0009 mg/             | General    | Systemic  |
|                                |       | Inhalation        | m³                     | population |           |
|                                | DNEL  | Long term         | 0.0035 mg/             | Workers    | Systemic  |
|                                |       | Inhalation        | m³ Č                   |            | ,         |
| toluene                        | DNEL  | Long term Oral    | 8.13 mg/               | General    | Systemic  |
|                                |       | 5                 | kg bw/day              | population | 5         |
|                                | DNEL  | Long term         | 56.5 mg/m <sup>3</sup> | General    | Local     |
|                                |       | Inhalation        | <u>-</u>               | population |           |
|                                | DNEL  | Long term         | 56.5 mg/m <sup>3</sup> | General    | Systemic  |
|                                |       | Inhalation        | ee.eg,                 | population | - )       |
|                                | DNEL  | Long term         | 192 mg/m <sup>3</sup>  | Workers    | Local     |
|                                |       | Inhalation        |                        |            |           |
|                                | DNEL  | Long term         | 192 mg/m <sup>3</sup>  | Workers    | Systemic  |
|                                |       | Inhalation        |                        |            |           |
|                                | DNEL  | Long term Dermal  | 226 mg/kg              | General    | Systemic  |
|                                | DITLE | Long tonin Donna  | bw/day                 | population | Cyclonno  |
|                                | DNEL  | Short term        | 226 mg/m <sup>3</sup>  | General    | Local     |
|                                | DIVLL | Inhalation        | 220 mg/m               | population | Loodi     |
|                                | DNEL  | Short term        | 226 mg/m <sup>3</sup>  | General    | Systemic  |
|                                | DINCL | Inhalation        | 220 mg/m               | population | Oysternie |
|                                | DNEL  | Long term Dermal  | 384 mg/kg              | Workers    | Systemic  |
|                                |       |                   | bw/day                 |            | - )       |
|                                | DNEL  | Short term        | 384 mg/m <sup>3</sup>  | Workers    | Local     |
|                                |       | Inhalation        | j,                     |            |           |
|                                | DNEL  | Short term        | 384 mg/m <sup>3</sup>  | Workers    | Systemic  |
|                                |       | Inhalation        | j,                     |            | -,        |
| methanol                       | DNEL  | Short term Oral   | 4 mg/kg                | General    | Systemic  |
|                                |       |                   | bw/day                 | population | - ,       |
|                                | DNEL  | Long term Oral    | 4 mg/kg                | General    | Systemic  |
|                                |       |                   | bw/day                 | population |           |
|                                | DNEL  | Short term Dermal | 4 mg/kg                | General    | Systemic  |
|                                |       |                   | bw/day                 | population | ,         |
|                                | DNEL  | Long term Dermal  | 4 mg/kg                | General    | Systemic  |
|                                |       |                   | bw/day                 | population |           |
|                                | DNEL  | Short term Dermal | 20 mg/kg               | Workers    | Systemic  |
|                                |       |                   | bw/day                 |            | ,         |
|                                | DNEL  | Long term Dermal  | 20 mg/kg               | Workers    | Systemic  |
|                                |       |                   | bw/day                 |            | ,         |
|                                | DNEL  | Short term        | 26 mg/m <sup>3</sup>   | General    | Local     |
|                                |       | Inhalation        |                        | population |           |
|                                | DNEL  | Long term         | 26 mg/m <sup>3</sup>   | General    | Local     |
|                                |       | Inhalation        |                        | population |           |
|                                | DNEL  | Short term        | 26 mg/m <sup>3</sup>   | General    | Systemic  |
|                                |       | Inhalation        | _~                     | population |           |
|                                | 1     |                   | 1                      | Population | 1         |
|                                |       |                   |                        |            |           |

### **SECTION 8: Exposure controls/personal protection**

| DN | IEL | v          | 26 mg/m <sup>3</sup>  | General    | Systemic |  |
|----|-----|------------|-----------------------|------------|----------|--|
|    |     | Inhalation |                       | population |          |  |
| DN | IEL | Short term | 130 mg/m³             | Workers    | Local    |  |
|    |     | Inhalation |                       |            |          |  |
| DN | IEL | Long term  | 130 mg/m³             | Workers    | Local    |  |
|    |     | Inhalation |                       |            |          |  |
| DN | IEL | Short term | 130 mg/m <sup>3</sup> | Workers    | Systemic |  |
|    |     | Inhalation | -                     |            | -        |  |
| DN | IEL | Long term  | 130 mg/m <sup>3</sup> | Workers    | Systemic |  |
|    |     | Inhalation | Ū                     |            |          |  |

#### **PNECs**

| Product/ingredient name                                       | Compartment Detail        | Value       | Method Detail |
|---|---------------------------|-------------|---------------|
| 2-Pentanone, 2,2',2"-[O,O',O"-<br>(methylsilylidyne)trioxime] | Fresh water               | 0.1 mg/l    | -             |
|   | Marine water              | 0.01 mg/l   | -             |
|   | Sewage Treatment<br>Plant | 2.15 mg/l   | -             |
|   | Fresh water sediment      | 0.569 mg/kg | -             |
|   | Marine water sediment     | 0.057 mg/kg | -             |
|   | Soil                      | 0.044 mg/kg | -             |
| toluene   | Fresh water               | 0.68 mg/l   | -             |
|   | Fresh water               | 0.68 mg/l   | -             |
|   | Marine water              | 0.68 mg/l   | -             |
|   | Sewage Treatment<br>Plant | 13.61 mg/l  | -             |
|   | Fresh water sediment      | 16.39 mg/kg | -             |
|   | Marine water sediment     | 16.39 mg/kg | -             |
|   | Soil                      | 2.89 mg/kg  | -             |

### 8.2 Exposure controls

: Good general ventilation should be sufficient to control worker exposure to airborne Appropriate engineering contaminants. controls Individual protection measures **Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. **Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. **Skin protection** : Chemical-resistant, impervious gloves complying with an approved standard should Hand protection be worn at all times when handling chemical products if a risk assessment indicates this is necessary. **Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. : Use appropriate respiratory protection if there is a risk of exceeding any exposure **Respiratory protection** limits. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Date of issue/Date of revision

7/15

### **SECTION 8: Exposure controls/personal protection**

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

| Appearance                                   |   |                 |
|--|---|-----------------|
| Physical state                               | ; | Solid. [Paste.] |
| Colour                                       | : | Grey.           |
| Odour  | : | Not available.  |
| Odour threshold                              | : | Not available.  |
| Melting point/freezing point                 | : | Not available.  |
| Initial boiling point and<br>boiling range   | : | Not available.  |
| Flammability (solid, gas)                    | : | Not available.  |
| Upper/lower flammability or explosive limits | : | Not applicable. |
| Flash point                                  | : | Not applicable. |
| Auto-ignition temperature                    | ; | Not applicable. |
| Decomposition temperature                    | ÷ | Not available.  |
| рН   | ; | Not available.  |
| Viscosity                                    | : | Not applicable. |
| Solubility in water                          | : | Insoluble       |
| Miscible with water                          | ; | No.             |
| Partition coefficient: n-octanol/<br>water   | : | Not applicable. |
| Vapour pressure                              | : | Not available.  |
| Relative density                             | : | 1.24 to 1.28    |
| Vapour density                               | ; | Not applicable. |
| Explosive properties                         | : | Not available.  |
| Oxidising properties                         | : | Not available.  |
| Particle characteristics                     |   |                 |
| Median particle size                         | : | Not available.  |

### **SECTION 10: Stability and reactivity**

| Date of issue/Date of revision           | 18 December 2023Date of previous issue       : No previous validation       Version       : 1       8/15 |
|--|--|
| 10.6 Hazardous<br>decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |
| 10.5 Incompatible materials              | : No specific data.  |
| 10.4 Conditions to avoid                 | : No specific data.  |
| 10.3 Possibility of hazardous reactions  | : Under normal conditions of storage and use, hazardous reactions will not occur.                        |
| 10.2 Chemical stability                  | : The product is stable.   |
| 10.1 Reactivity                          | : No specific test data related to reactivity available for this product or its ingredients.             |

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

| Product/ingredient name       | Result                 | Species      | Dose                  | Exposure |  |
|-------------------------------|------------------------|--------------|-----------------------|----------|--|
| 2-Pentanone, 2,2',2"-[0,0',   | LD50 Dermal            | Rat - Male,  | >1782 mg/kg           | -        |  |
| O"-(methylsilylidyne)         |                        | Female       | 00                    |          |  |
| trioxime]                     |                        |              |                       |          |  |
| -                             | LD50 Oral              | Rat - Female | 1234 mg/kg            | -        |  |
| dioctyltin dilaurate          | LD50 Oral              | Rat          | 6450 mg/kg            | -        |  |
| toluene                       | LC50 Inhalation Vapour | Rat          | 49 g/m³               | 4 hours  |  |
|                               | LD50 Oral              | Rat          | 636 mg/kg             | -        |  |
| Silane, dichlorodimethyl-,    | LC50 Inhalation Vapour | Rat          | 450 mg/m <sup>3</sup> | 4 hours  |  |
| reaction products with silica |                        |              |                       |          |  |
|                               | LD50 Oral              | Rat          | >5000 mg/kg           | -        |  |
| methanol                      | LC50 Inhalation Gas.   | Rat          | 145000 ppm            | 1 hours  |  |
|                               | LC50 Inhalation Gas.   | Rat          | 64000 ppm             | 4 hours  |  |
|                               | LD50 Dermal            | Rabbit       | 15800 mg/kg           | -        |  |
|                               | LD50 Oral              | Rat          | 5600 mg/kg            | -        |  |

Conclusion/Summary : B

: Based on available data, the classification criteria are not met.

### Acute toxicity estimates

| Product/ingredient name                                       | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| ARBOSIL® HDLMS Grey   | 31636.2          | N/A               | N/A                            | N/A                               | N/A  |
| 2-Pentanone, 2,2',2"-[O,O',O"-(methylsilylidyne)<br>trioxime] | 1234             | N/A               | N/A                            | N/A                               | N/A  |
| dioctyltin dilaurate  | 6450             | N/A               | N/A                            | N/A                               | N/A  |
| toluene   | N/A              | N/A               | N/A                            | 49                                | N/A  |
| methanol  | 100              | 300               | 64000                          | 3                                 | N/A  |

### Irritation/Corrosion

| Product/ingredient name                                       | Result   | Species            | Score       | Exposure            | Observation |
|---|--|--------------------|-------------|---------------------|-------------|
| silicon dioxide   | Eyes - Mild irritant   | Rabbit             | -           | 24 hours 25         | -           |
|   |  |                    |             | mg                  |             |
| 2-Pentanone, 2,2',2"-[O,O',<br>O"-(methylsilylidyne)trioxime] | Eyes - Irritant  | Rabbit             | -           | -                   | -           |
| titanium dioxide  | Skin - Mild irritant   | Human              | -           | 72 hours 300        | -           |
| toluene   | Eyes - Mild irritant   | Rabbit             | _           | ug I<br>0.5 minutes | _           |
|   | Lycs - Wild Inflant  | Rabbit             | _           | 100 mg              |             |
|   | Eyes - Mild irritant   | Rabbit             | -           | 870 ug              | -           |
|   | Eyes - Severe irritant   | Rabbit             | -           | 24 hours 2          | -           |
|   |  | Dia                |             | mg                  |             |
|   | Skin - Mild irritant   | Pig                | -           | 24 hours 250<br>uL  | -           |
|   | Skin - Mild irritant   | Rabbit             | -           | 435 mg              | -           |
|   | Skin - Moderate irritant   | Rabbit             | -           | 24 hours 20         | -           |
|   | Okin Madavata invitant   | Debbit             |             | mg                  |             |
| we ath a wal  | Skin - Moderate irritant   | Rabbit             | -           | 500 mg              | -           |
| methanol  | Eyes - Moderate irritant   | Rabbit             | -           | 24 hours 100<br>mg  | -           |
|   | Eyes - Moderate irritant   | Rabbit             | -           | 40 mg               | -           |
|   | Skin - Moderate irritant   | Rabbit             | -           | 24 hours 20         | -           |
|   |  |                    |             | mg                  |             |
| Conclusion/Summary  |  |                    |             |                     |             |
| Skin  | : Based on available data, th  | e classification c | riteria are | not met.            |             |
| Even  | . Based on evoluble data the electricities extension established are not mat |                    |             |                     |             |

Eyes : Based on available data, the classification criteria are not met.

**Respiratory** : Based on available data, the classification criteria are not met.

Date of issue/Date of revision

9/15

### **SECTION 11: Toxicological information**

#### **Sensitisation**

| <b>Conclusion/Summary</b>     |     |   |
|-------------------------------|-----|---|
| Skin                          | 1   | Based on available data, the classification criteria are not met. |
| Respiratory                   | 1   | Based on available data, the classification criteria are not met. |
| Mutagenicity                  |     |   |
| <b>Conclusion/Summary</b>     | 1   | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>        |     |   |
| <b>Conclusion/Summary</b>     | 1   | Based on available data, the classification criteria are not met. |
| Reproductive toxicity         |     |   |
| <b>Conclusion/Summary</b>     | 1   | Based on available data, the classification criteria are not met. |
| <b>Teratogenicity</b>         |     |   |
| <b>Conclusion/Summary</b>     | 1   | Based on available data, the classification criteria are not met. |
| Specific target organ toxicit | у ( | <u>single exposure)</u>   |

| Product/ingredient name | Category   | Route of exposure | Target organs    |
|-------------------------|------------|-------------------|------------------|
| toluene                 | Category 3 | -                 | Narcotic effects |
| methanol                | Category 1 |                   | -                |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category                 | Route of exposure | Target organs                                    |
|-------------------------|--------------------------|-------------------|--|
|                         | Category 1<br>Category 2 | inhalation        | immune system<br>central nervous<br>system (CNS) |

### **Aspiration hazard**

| Product/ingredient name | Result                         |  |
|-------------------------|--------------------------------|--|
| toluene                 | ASPIRATION HAZARD - Category 1 |  |

| Information on likely routes of exposure | Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. |  |
|--|--|--|
| Potential acute health effects           |  |  |
| Eye contact                              | No known significant effects or critical hazards.            |  |
| Inhalation                               | No known significant effects or critical hazards.            |  |
| Skin contact                             | No known significant effects or critical hazards.            |  |
| Ingestion                                | No known significant effects or critical hazards.            |  |
| Symptoms related to the phys             | al, chemical and toxicological characteristics               |  |
| Eye contact                              | Slightly irritating to the eyes.                             |  |
| Inhalation                               | No specific data.  |  |
| Skin contact                             | May cause skin sensitisation.                                |  |
| Ingestion                                | No specific data.  |  |
| · · · · · · · · · · · · · · · · · · ·    | as well as chronic effects from short and long-term exposure |  |
| Short term exposure                      | · · · · · · · · · · · · · · · · · · ·                        |  |
| Potential immediate<br>effects           | May cause skin sensitisation.                                |  |
| Potential delayed effects                | Not available.   |  |
| Long term exposure                       |  |  |
| Potential immediate<br>effects           | Not available.   |  |

Date of issue/Date of revision

### **SECTION 11: Toxicological information**

| Potential delayed effects    | : Not available.   |
|------------------------------|--|
| Potential chronic health eff | ects   |
| Not available.               |  |
| Conclusion/Summary           | : Based on available data, the classification criteria are not met.  |
| General                      | : Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as<br>harmful if swallowed, causes serious eye irritation and may cause damage to blood/<br>spleen through prolonged/repeated exposure.<br>Curing process may release a small amount of methanol which is irritating to<br>mucous membranes and has skin drying and narcotic effects. |
| Carcinogenicity              | : No known significant effects or critical hazards.  |
| Mutagenicity                 | : No known significant effects or critical hazards.  |
| Reproductive toxicity        | : No known significant effects or critical hazards.  |

### **Other information**

: Not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

| Product/ingredient name | Result                                   | Species  | Exposur  |
|-------------------------|--|--|----------|
| silicon dioxide         | Acute EC50 2.2 g/L Fresh water           | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate  | 48 hours |
|                         | Chronic NOEC 12.5 mg/l Fresh water       | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate  | 21 days  |
| titanium dioxide        | Acute LC50 3 mg/l Fresh water            | Crustaceans - Water flea -<br><i>Ceriodaphnia dubia</i> - Neonate                                    | 48 hours |
|                         | Acute LC50 6.5 mg/l Fresh water          | Daphnia - Water flea - <i>Daphnia</i><br><i>pulex</i> - Neonate                                      | 48 hours |
|                         | Acute LC50 >1000000 μg/l Marine<br>water | Fish - Mummichog - Fundulus heteroclitus   | 96 hours |
| oluene                  | Acute EC50 >433 ppm Marine water         | Algae - Diatom - <i>Skeletonema</i> costatum   | 96 hours |
|                         | Acute EC50 11600 µg/l Fresh water        | Crustaceans - Scud -<br><i>Gammarus pseudolimnaeus</i> -<br>Adult                                    | 48 hours |
|                         | Acute EC50 6000 μg/l Fresh water         | Daphnia - Water flea - <i>Daphnia</i><br><i>magna</i> - Juvenile (Fledgling,<br>Hatchling, Weanling) | 48 hours |
|                         | Acute LC50 5500 μg/l Fresh water         | Fish - Coho salmon,silver<br>salmon - <i>Oncorhynchus kisutch</i><br>- Fry                           | 96 hours |
|                         | Chronic NOEC 1 mg/l Fresh water          | Daphnia - Water flea - Daphnia<br>magna  | 21 days  |
| methanol                | Acute EC50 16.912 mg/l Marine water      | Algae - Green algae - Ulva<br>pertusa  | 96 hours |
|                         | Acute LC50 2500000 µg/l Marine water     | Crustaceans - Common shrimp,<br>sand shrimp - <i>Crangon crangon</i><br>- Adult                      | 48 hours |
|                         | Acute LC50 3289 mg/l Fresh water         | Daphnia - Water flea - <i>Daphnia</i><br><i>magna</i> - Neonate                                      | 48 hours |
|                         | Acute LC50 290 mg/l Fresh water          | Fish - Zebra danio - <i>Danio rerio</i><br>- Egg   | 96 hours |
|                         | Chronic NOEC 9.96 mg/l Marine water      | Algae - Green algae - <i>Ulva</i><br>pertusa   | 96 hours |

Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

| Date of issue/Date of revision | 18 December 2023 Date of previous issue | : No previous validation | Version : 1 | 11/15 |
|--------------------------------|---|--------------------------|-------------|-------|
|--------------------------------|---|--------------------------|-------------|-------|

### **SECTION 12: Ecological information**

| available.       |           |                                 |
|------------------|-----------|---------------------------------|
| tic half-life Ph | notolysis | Biodegradability                |
| -                |           | Not readily<br>Readilv          |
|                  |           | tic half-life Photolysis  <br>- |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF  | Potential |
|-------------------------|--------|------|-----------|
| dioctyltin dilaurate    | -      | <100 | Low       |
| toluene                 | 2.73   | 90   | Low       |
| methanol                | -0.77  | <10  | Low       |

| 12.4 Mobility in soil                  |                  |
|--|------------------|
| Soil/water partition coefficient (Koc) | : Not available. |
| Mobility                               | : Not available. |

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **13.1 Waste treatment methods**

| Product             |   |   |
|---------------------|---|---|
| Methods of disposal | : | The generation of waste should be avoided or minimised wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. |
| Hazardous waste     | 1 | Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.   |
| Packaging           |   |   |
| Methods of disposal | : | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| Special precautions | : | This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.   |

### **SECTION 14: Transport information**

| SECTION 14: Transport information  |                |                |                |                |
|------------------------------------|----------------|----------------|----------------|----------------|
|                                    | ADR/RID        | ADN            | IMDG           | IATA           |
| 14.1 UN number                     | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper<br>shipping name    | -              | -              | -              | -              |
| 14.3 Transport<br>hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing<br>group              | -              | -              | -              | -              |
| 14.5<br>Environmental<br>hazards   | No.            | No.            | No.            | No.            |

| 14.6 Special | precautions for |
|--------------|-----------------|
| user         |                 |

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

### Annex XIV - List of substances subject to authorisation

: Not available.

### Annex XIV

None of the components are listed.

### Substances of very high concern

None of the components are listed.

### **Ozone depleting substances**

Not listed.

### **Prior Informed Consent (PIC)**

| Part   | Ingredient name      | Status |
|--------|----------------------|--------|
| Part 1 | dioctyltin compounds | Listed |

### Persistent Organic Pollutants

Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | %    | Designation [Usage] |
|-------------------------|------|---------------------|
| dioctyltin dilaurate    | <0.3 | 20                  |
| toluene                 | ≤0.1 | 48                  |
| methanol                | <0.1 | 69                  |

#### Labelling

: Not applicable.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### EU regulations

### **SECTION 15: Regulatory information**

| SECTION 15. Regula  |     |  |
|---|-----|--|
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Air   | :   | Not listed   |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Water | :   | Not listed   |
| International regulations   |     |  |
| <u>Chemical Weapon Conventi</u>   | on  | List Schedules I, II & III Chemicals   |
| Not listed.   |     |  |
| Montreal Protocol   |     |  |
| Not listed.   |     |  |
| Stockholm Convention on P   | Per | sistent Organic Pollutants   |
| Not listed.   |     |  |
| Rotterdam Convention on P   | rio | r Informed Consent (PIC)   |
| Not listed.   |     |  |
| UNECE Aarhus Protocol on  | PC  | )Ps and Heavy Metals   |
| Not listed.   |     |  |
| Inventory list  |     |  |
| Australia   | :   | Not determined.  |
| Canada  | :   | Not determined.  |
| China   | :   | Not determined.  |
| Eurasian Economic Union   | :   | Russian Federation inventory: Not determined.  |
| Japan   | :   | Japan inventory (CSCL): Not determined.<br>Japan inventory (ISHL): Not determined.         |
| New Zealand   | :   | Not determined.  |
| Philippines   | :   | Not determined.  |
| Republic of Korea   | :   | Not determined.  |
| Taiwan  | :   | Not determined.  |
| Thailand  | :   | Not determined.  |
| Turkey  | :   | Not determined.  |
| United States   | :   | Not determined.  |
| Viet Nam  | :   | Not determined.  |
| 15.2 Chemical safety assessment   | :   | This product contains substances for which Chemical Safety Assessments are still required. |

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and<br>acronyms | <ul> <li>ATE = Acute Toxicity Estimate<br/>GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and<br/>Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019<br/>No. 720 and amendments<br/>DMEL = Derived Minimal Effect Level<br/>DNEL = Derived No Effect Level<br/>EUH statement = GB CLP-specific Hazard statement<br/>N/A = Not available<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>RRN = REACH Registration Number<br/>SGG = Segregation Group<br/>vPvB = Very Persistent and Very Bioaccumulative</li> </ul> |
|-------------------------------|--|
|-------------------------------|--|

### **SECTION 16: Other information**

Procedure used to derive the classification

Not classified.

#### Full text of abbreviated H statements

| H225  | Highly flammable liquid and vapour.                                |
|-------|--|
| H301  | Toxic if swallowed.  |
| H302  | Harmful if swallowed.  |
| H304  | May be fatal if swallowed and enters airways.                      |
| H311  | Toxic in contact with skin.  |
| H315  | Causes skin irritation.  |
| H319  | Causes serious eye irritation.                                     |
| H331  | Toxic if inhaled.  |
| H336  | May cause drowsiness or dizziness.                                 |
| H360D | May damage the unborn child.                                       |
| H361d | Suspected of damaging the unborn child.                            |
| H370  | Causes damage to organs.   |
| H372  | Causes damage to organs through prolonged or repeated exposure.    |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H412  | Harmful to aquatic life with long lasting effects.                 |

#### Full text of classifications

| Acute Tox. 3           | ACUTE TOXICITY - Category 3                                     |
|------------------------|---|
|                        |   |
| Acute Tox. 4           | ACUTE TOXICITY - Category 4                                     |
| Aquatic Chronic 3      | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Asp. Tox. 1            | ASPIRATION HAZARD - Category 1                                  |
| Eye Irrit. 2           | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2           | FLAMMABLE LIQUIDS - Category 2                                  |
| Repr. 1B               | REPRODUCTIVE TOXICITY - Category 1B                             |
| Repr. 2                | REPRODUCTIVE TOXICITY - Category 2                              |
| Skin Irrit. 2          | SKIN CORROSION/IRRITATION - Category 2                          |
| STOT RE 1              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2              | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 1              | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1   |
| STOT SE 3              | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |
| Date of printing       | : 18 December 2023  |
| Date of issue/ Date of | : 18 December 2023  |
|                        |   |

| revision               |                          |
|------------------------|--------------------------|
| Date of previous issue | : No previous validation |

: 1

#### Version

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.