# SAFETY DATA SHEET



## ARBOSIL® HDLMS Black

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

1.1 Product identifier

Product name : ARBOSIL® HDLMS Black

Product description : Sealants
Other means of : Not available.

identification

## 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 : National Poisons Information Service (NPIS)

Tel: 0344 892 0111 (for healthcare professionals only)

Website: http://www.npis.org/

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24

by dialling 111. In Northern Ireland contact your local GP.

**Supplier** 

**Telephone number** : +44 (0)1773 826661

(Office hours: 8.30 - 17.00)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according 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 critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

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## **SECTION 2: Hazards identification**

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label

elements

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic

reaction.

Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### **Special packaging requirements**

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 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 harmful if swallowed, causes serious eye irritation, may cause damage to blood/spleen through prolonged/repeated exposure and is harmful to aquatic life with long lasting effects.

Curing process may release a small amount of methanol which is irritating to mucous membranes and has skin drying and narcotic effects.

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

3.2 Mixtures : Mixture

| Product/ingredient name                                       | Identifiers   | %         | Classification  | Type    |
|---|---|-----------|---|---------|
| 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]     |
| carbon black, non respirable                                  | EC: 215-609-9<br>CAS: 1333-86-4   | ≤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<br>system (CNS))<br>(inhalation)<br>Asp. Tox. 1, H304 | [1] [2] |

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ARBOSIL® HDLMS Black SECTION 3: Composition/information on ingredients Aquatic Chronic 3, H412 methanol EC: 200-659-6 < 0.1 Flam. Liq. 2, H225 [1] [2] CAS: 67-56-1 Acute Tox. 3. H301 Index: 603-001-00-X Acute Tox. 3, H311 Acute Tox. 3, H331 **STOT SE 1, H370** See Section 16 for the full text of the H statements declared

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.

#### **Type**

- [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

**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

above.

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful if swallowed, causes serious eye irritation and may cause damage to blood/

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.

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

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

metal oxide/oxides

# media

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: No specific fire or explosion hazard.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

## 5.3 Advice for firefighters

Special protective actions for fire-fighters

: 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.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

## SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal 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 and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment 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.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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# **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

- : Put on appropriate personal protective equipment (see Section 8).
- 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 : Not available.

solutions

# 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/m³ 8 hours. Form: respirable dust                |
|                              | TWA: 10 mg/m³ 8 hours. Form: inhalable dust                |
|                              | EH40/2005 WELs (United Kingdom (UK), 1/2020). [limestone   |
|                              | total inhalable/respirable]                                |
|                              | TWA: 4 mg/m³ 8 hours. Form: respirable                     |
|                              | TWA: 10 mg/m³ 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/m³ 8 hours. Form: respirable dust              |
|                              | TWA: 6 mg/m³ 8 hours. Form: inhalable dust                 |
| carbon black, non respirable | EH40/2005 WELs (United Kingdom (UK), 1/2020).              |
|                              | STEL: 7 mg/m³ 15 minutes.                                  |
|                              | TWA: 3.5 mg/m³ 8 hours.                                    |
| 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/m³ 15 minutes.                                |
|                              | TWA: 191 mg/m³ 8 hours.                                    |
|                              | TWA: 50 ppm 8 hours.                                       |
|                              | STEL: 100 ppm 15 minutes.                                  |
| methanol                     | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed     |
|                              | through skin.  |
|                              | STEL: 333 mg/m³ 15 minutes.                                |
|                              | STEL: 250 ppm 15 minutes.                                  |
|                              | TWA: 266 mg/m³ 8 hours.                                    |

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

TWA: 200 ppm 8 hours.

## **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to 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"-<br>(methylsilylidyne)trioxime] | DNEL           | Long term<br>Inhalation               | 0.229 mg/<br>m³              | Workers                             | Systemic      |
| (metrysnyndyne)trioximej                                      | DNEL           | Long term Dermal                      | 0.065 mg/<br>kg bw/day       | Workers                             | Systemic      |
| carbon black, non respirable                                  | DNEL           | Long term<br>Inhalation               | 0.06 mg/m <sup>3</sup>       | General population                  | Systemic      |
|   | DNEL           | Long term<br>Inhalation               | 1 mg/m³                      | Workers                             | Systemic      |
| dioctyltin dilaurate  | DNEL           | Long term Oral                        | 0.0005 mg/<br>kg bw/day      | General<br>population               | Systemic      |
|   | DNEL           | Long term<br>Inhalation               | 0.0009 mg/                   | General population                  | Systemic      |
|   | DNEL           | Long term                             | 0.0035 mg/<br>m <sup>3</sup> | Workers                             | Systemic      |
| toluene   | DNEL           | Inhalation<br>Long term Oral          | 8.13 mg/                     | General                             | Systemic      |
|   | DNEL           | Long term<br>Inhalation               | kg bw/day<br>56.5 mg/m³      | population<br>General<br>population | Local         |
|   | DNEL           | Long term                             | 56.5 mg/m <sup>3</sup>       | General                             | Systemic      |
|   | DNEL           | Inhalation<br>Long term<br>Inhalation | 192 mg/m³                    | population<br>Workers               | Local         |
|   | DNEL           | Long term Inhalation                  | 192 mg/m³                    | Workers                             | Systemic      |
|   | DNEL           | Long term Dermal                      | 226 mg/kg<br>bw/day          | General<br>population               | Systemic      |
|   | DNEL           | Short term<br>Inhalation              | 226 mg/m <sup>3</sup>        | General                             | Local         |
|   | DNEL           | Short term<br>Inhalation              | 226 mg/m <sup>3</sup>        | population<br>General<br>population | Systemic      |
|   | DNEL           | Long term Dermal                      | 384 mg/kg<br>bw/day          | Workers                             | Systemic      |
|   | DNEL           | Short term<br>Inhalation              | 384 mg/m <sup>3</sup>        | Workers                             | Local         |
|   | DNEL           | Short term<br>Inhalation              | 384 mg/m³                    | Workers                             | Systemic      |
| methanol  | DNEL           | Short term Oral                       | 4 mg/kg<br>bw/day            | General<br>population               | Systemic      |
|   | DNEL           | Long term Oral                        | 4 mg/kg<br>bw/day            | General population                  | Systemic      |
|   | DNEL           | Short term Dermal                     | 4 mg/kg<br>bw/day            | General population                  | Systemic      |
|   | DNEL           | Long term Dermal                      | 4 mg/kg                      | General                             | Systemic      |
|   | DNEL           | Short term Dermal                     | bw/day<br>20 mg/kg           | population<br>Workers               | Systemic      |
|   | DNEL           | Long term Dermal                      | bw/day<br>20 mg/kg<br>bw/day | Workers                             | Systemic      |
|   | DNEL           | Short term                            | 26 mg/m <sup>3</sup>         | General                             | Local         |
|   | DNEL           | Inhalation Long term                  | 26 mg/m³                     | population<br>General               | Local         |
|   | DNEL           | Inhalation<br>Short term              | 26 mg/m³                     | population<br>General               | Systemic      |
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# **SECTION 8: Exposure controls/personal protection**

|     | Inhalation   |                       | population |          |
|-----|--------------|-----------------------|------------|----------|
| DNE | L Long term  | 26 mg/m <sup>3</sup>  | General    | Systemic |
|     | Inhalation   |                       | population |          |
| DNE | L Short term | 130 mg/m <sup>3</sup> | Workers    | Local    |
|     | Inhalation   |                       |            |          |
| DNE | L Long term  | 130 mg/m <sup>3</sup> | Workers    | Local    |
|     | Inhalation   |                       |            |          |
| DNE | L Short term | 130 mg/m <sup>3</sup> | Workers    | Systemic |
|     | Inhalation   |                       |            |          |
| DNE | L Long term  | 130 mg/m <sup>3</sup> | Workers    | Systemic |
|     | Inhalation   |                       |            |          |
|     | 1            |                       |            |          |

#### **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 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 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

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### 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**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should 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.

**Respiratory protection** 

Use appropriate respiratory protection if there is a risk of exceeding any exposure 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.

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# 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 : Black.

**Odour** : Not available. : Not available. **Odour threshold** Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

: Not available. Flammability (solid, gas) Upper/lower flammability or : Not applicable.

explosive limits

: Not applicable. Flash point **Auto-ignition temperature** Not applicable. **Decomposition temperature** : Not available. pН Not available. **Viscosity** : Not applicable. : Insoluble

Solubility in water Miscible with water

Partition coefficient: n-octanol/ : Not applicable.

water

: Not available. Vapour pressure 1.24 to 1.28 Relative density Vapour density : Not applicable. **Explosive properties** : Not available. Oxidising properties Not available.

**Particle characteristics** 

Median particle size : Not available.

# SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products decomposition products should not be produced.

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name            | Result                 | Species      | Dose         | Exposure |
|------------------------------------|------------------------|--------------|--------------|----------|
| 2-Pentanone, 2,2',2"-[O,O',        | LD50 Dermal            | Rat - Male,  | >1782 mg/kg  | -        |
| O"-(methylsilylidyne)<br>trioxime] |                        | Female       |              |          |
| _                                  | LD50 Oral              | Rat - Female | 1234 mg/kg   | -        |
| carbon black, non respirable       | LD50 Oral              | Rat          | >15400 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    | -        |
| 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**

: 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 Black                                       | 32624.8          | N/A               | N/A                            | N/A                               | N/A  |
| 2-Pentanone, 2,2',2"-[O,O',O"-(methylsilylidyne) 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', O"-(methylsilylidyne)trioxime] | Eyes - Irritant          | Rabbit  | -     | -                  | -           |
| toluene  | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes        | -           |
|  |                          |         |       | 100 mg             |             |
|  | Eyes - Mild irritant     | Rabbit  | -     | 870 ug             | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2         | -           |
|  |                          |         |       | mg                 |             |
|  | Skin - Mild irritant     | Pig     | -     | 24 hours 250<br>uL | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 435 mg             | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20        | -           |
|  |                          |         |       | mg                 |             |
|  | Skin - Moderate irritant | Rabbit  | -     | 500 mg             | -           |
| methanol   | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100       | -           |
|  |                          |         |       | mg                 |             |
|  | Eyes - Moderate irritant | Rabbit  | -     | 40 mg              | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20        | -           |
|  |                          |         |       | mg                 |             |

## **Conclusion/Summary**

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

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

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

**Sensitisation** 

**Conclusion/Summary** 

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

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# **SECTION 11: Toxicological information**

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

**Mutagenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Carcinogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Reproductive toxicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category                 | Route of exposure | Target organs    |
|-------------------------|--------------------------|-------------------|------------------|
|                         | Category 3<br>Category 1 | -                 | Narcotic effects |

### 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**: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

of exposure

Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Symptoms related to the physical, 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.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : May cause skin sensitisation.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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## **SECTION 11: Toxicological information**

Conclusion/Summary General

- : Based on available data, the classification criteria are not met.
- : Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful if swallowed, causes serious eye irritation and may cause damage to blood/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.

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   | Exposure |
|------------------------------|--------------------------------------|---|----------|
| silicon dioxide              | Acute EC50 2.2 g/L Fresh water       | Daphnia - Water flea - <i>Daphnia</i> magna - Neonate                                   | 48 hours |
|                              | Chronic NOEC 12.5 mg/l Fresh water   | Daphnia - Water flea - <i>Daphnia</i> magna - Neonate                                   | 21 days  |
| carbon black, non respirable | Acute EC50 37.563 mg/l Fresh water   | Daphnia - Water flea - <i>Daphnia</i> magna - Neonate                                   | 48 hours |
| toluene                      | Acute EC50 >433 ppm Marine water     | Algae - Diatom - Skeletonema costatum   | 96 hours |
|                              | Acute EC50 11600 μg/l Fresh water    | Crustaceans - Scud - Gammarus pseudolimnaeus - Adult                                    | 48 hours |
|                              | Acute EC50 6000 μg/l Fresh water     | Daphnia - Water flea - <i>Daphnia</i> magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                              | Acute LC50 5500 μg/l Fresh water     | Fish - Coho salmon,silver salmon - <i>Oncorhynchus kisutch</i> - Fry                    | 96 hours |
|                              | Chronic NOEC 1 mg/l Fresh water      | Daphnia - Water flea - Daphnia magna  | 21 days  |
| methanol                     | Acute EC50 16.912 mg/l Marine water  | Algae - Green algae - <i>Ulva</i> pertusa   | 96 hours |
|                              | Acute LC50 2500000 μg/l Marine water | Crustaceans - Common shrimp,<br>sand shrimp - Crangon crangon<br>- Adult                | 48 hours |
|                              | Acute LC50 3289 mg/l Fresh water     | Daphnia - Water flea - <i>Daphnia</i> magna - 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> pertusa   | 96 hours |

**Conclusion/Summary** 

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

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

Conclusion/Summary : Not available.

| Product/ingredient name                | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| 2-Pentanone, 2,2',2"-[0,0',            | -                 | -          | Not readily      |
| O"-(methylsilylidyne)trioxime] toluene | -                 | -          | Readily          |

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# **SECTION 12: Ecological information**

## 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow        | BCF       | Potential  |
|-------------------------|---------------|-----------|------------|
| dioctyltin dilaurate    | -             | <100      | Low        |
| toluene<br>methanol     | 2.73<br>-0.77 | 90<br><10 | Low<br>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. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: 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**

|                                 | ADR/RID        | ADN            | IMDG           | IATA           |
|---------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number                  | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name    | -              | -              | -              | -              |
| 14.3 Transport hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing group              | -              | -              | -              | -              |
|                                 |                |                |                |                |

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ARBOSIL® HDLMS Black **SECTION 14: Transport information** 14.5 No. No. No. No. **Environmental** 

14.6 Special precautions for : 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

hazards

: Not available.

# 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**

#### **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**

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution

prevention and control) -

Water

#### **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

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# **SECTION 15: Regulatory information**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs 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 inventory (CSCL): Not determined.

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** : This product contains substances for which Chemical Safety Assessments are still

assessment required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

#### 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.                  |

# **SECTION 16: Other information**

| 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   |

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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.

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