

# SAFETY DATA SHEET



ARBOSIL® 1070 Buff

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

### 1.1 Product identifier

**Product name** : ARBOSIL® 1070 Buff  
**Product description** : Fire resistant silicone sealant.  
**Other means of identification** : Not available.

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

| Identified uses                  |        |
|----------------------------------|--------|
| Fire resistant silicone sealant. |        |
| 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

Eye Dam. 1, H318  
Skin Sens. 1, H317  
Repr. 1B, H360D

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

## SECTION 2: Hazards identification

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H360D - May damage the unborn child.

### Precautionary statements

#### Prevention

: P201 - Obtain special instructions before use.  
P280 - Wear protective gloves, protective clothing and eye or face protection.  
P261 - Avoid breathing vapour.

#### Response

: P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.  
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.

#### Storage

: Not applicable.

#### Disposal

: Not applicable.

### Supplemental label elements

: Not applicable.

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

: Restricted to professional users.

### Special packaging requirements

#### Containers to be fitted with child-resistant fastenings

: Not applicable.

#### 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 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                                 | ≥10 - ≤25 | Not classified.  | [2]  |
| silicon dioxide                                   | REACH #:<br>01-2119379499-16<br>EC: 231-545-4<br>CAS: 7631-86-9 | ≤5        | Not classified.  | [2]  |
| N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide] | REACH #:<br>01-2120770139-50<br>EC: 240-354-5                   | ≤5        | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317 | [1]  |
| bis(ethyl acetoacetato-O1',O3)bis                 | REACH #:  | ≤4.9      | Flam. Liq. 3, H226   | [1]  |

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### SECTION 3: Composition/information on ingredients

|  |   |      |  |         |
|--|---|------|--|---------|
| (2-methylpropan-1-olato)titanium                         | 01-2119968551-31<br>EC: 281-161-6<br>CAS: 83877-91-2  |      | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336  |         |
| dioctyltin dilaurate                                     | UK (GB) REACH #: UK-01-4760535389-6<br>EC: 222-883-3<br>CAS: 3648-18-8<br>Index: 050-031-00-9 | <1   | Repr. 1B, H360D<br>STOT RE 1, H372<br>(immune system)  | [1] [2] |
| titanium dioxide   | REACH #:<br>01-2119489379-17<br>EC: 236-675-5<br>CAS: 13463-67-7<br>Index: 022-006-00-2       | ≤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] |
| 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]     |
| 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 system (CNS))<br>(inhalation)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2] |

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**

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation**

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## SECTION 4: First aid measures

- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
 pain or irritation  
 redness  
 blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
 stomach pains

### 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 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 media** : None known.

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

- Hazards from the substance or mixture** : No specific fire or explosion hazard.

## SECTION 5: Firefighting measures

**Hazardous combustion products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 metal oxide/oxides

### 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 spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled 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.

## 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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## SECTION 7: Handling and storage

### 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. Store locked up. 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  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [calcium carbonate inhalable dust/respirable dust]</b><br>TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable dust<br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust<br><b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [limestone total inhalable/respirable]</b><br>TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable<br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable |
| silicon dioxide  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [silica, amorphous inhalable dust/respirable dust]</b><br>TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: respirable dust<br>TWA: 6 mg/m <sup>3</sup> 8 hours. Form: inhalable dust   |
| dioctyltin dilaurate                                     | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). [tin compounds, organic, except cyhexatin (ISO) as Sn] Absorbed through skin.</b><br>STEL: 0.2 mg/m <sup>3</sup> , (as Sn) 15 minutes.<br>TWA: 0.1 mg/m <sup>3</sup> , (as Sn) 8 hours.   |
| titanium dioxide   | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable<br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total inhalable   |
| methanol   | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 333 mg/m <sup>3</sup> 15 minutes.<br>STEL: 250 ppm 15 minutes.<br>TWA: 266 mg/m <sup>3</sup> 8 hours.<br>TWA: 200 ppm 8 hours.  |
| Silane, dichlorodimethyl-, reaction products with silica | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>TWA: 2.4 mg/m <sup>3</sup> 8 hours. Form: Respirable dust<br>TWA: 6 mg/m <sup>3</sup> 8 hours. Form: inhalable dust  |
| toluene  | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 384 mg/m <sup>3</sup> 15 minutes.<br>TWA: 191 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.<br>STEL: 100 ppm 15 minutes.   |

#### Biological exposure indices



## SECTION 8: Exposure controls/personal protection

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   | Type    | Exposure              | Value                    | Population         | Effects            |
|---|---------|-----------------------|--------------------------|--------------------|--------------------|
| N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]                 | DNEL    | Long term Inhalation  | 1.76 mg/m <sup>3</sup>   | Workers            | Systemic           |
|   | DNEL    | Long term Dermal      | 0.5 mg/kg bw/day         | Workers            | Systemic           |
|   | DNEL    | Long term Inhalation  | 0.43 mg/m <sup>3</sup>   | General population | Systemic           |
|   | DNEL    | Long term Dermal      | 0.25 mg/kg bw/day        | General population | Systemic           |
|   | DNEL    | Long term Oral        | 0.25 mg/kg bw/day        | General population | Systemic           |
| bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium | DNEL    | Long term Oral        | 22 mg/kg bw/day          | General population | Systemic           |
|   | DNEL    | Long term Dermal      | 220 mg/kg bw/day         | General population | Systemic           |
|   | DNEL    | Long term Inhalation  | 254 mg/m <sup>3</sup>    | Workers            | Systemic           |
|   | DNEL    | Long term Inhalation  | 303 mg/m <sup>3</sup>    | General population | Systemic           |
| dioctyltin dilaurate  | DNEL    | Long term Oral        | 0.0005 mg/kg bw/day      | General population | Systemic           |
|   | DNEL    | Long term Inhalation  | 0.0009 mg/m <sup>3</sup> | General population | Systemic           |
|   | DNEL    | Long term Inhalation  | 0.0035 mg/m <sup>3</sup> | Workers            | Systemic           |
| methanol  | DNEL    | Short term Oral       | 4 mg/kg bw/day           | General population | Systemic           |
|   | DNEL    | Long term Oral        | 4 mg/kg bw/day           | General population | Systemic           |
|   | DNEL    | Short term Dermal     | 4 mg/kg bw/day           | General population | Systemic           |
|   | DNEL    | Long term Dermal      | 4 mg/kg bw/day           | General population | Systemic           |
|   | DNEL    | Short term Dermal     | 20 mg/kg bw/day          | Workers            | Systemic           |
|   | DNEL    | Long term Dermal      | 20 mg/kg bw/day          | Workers            | Systemic           |
|   | DNEL    | Short term Inhalation | 26 mg/m <sup>3</sup>     | General population | Local              |
|   | DNEL    | Long term Inhalation  | 26 mg/m <sup>3</sup>     | General population | Local              |
|   | DNEL    | Short term Inhalation | 26 mg/m <sup>3</sup>     | General population | Systemic           |
|   | DNEL    | Long term Inhalation  | 26 mg/m <sup>3</sup>     | General population | Systemic           |
|   | DNEL    | Short term Inhalation | 130 mg/m <sup>3</sup>    | Workers            | Local              |
|   | DNEL    | Long term Inhalation  | 130 mg/m <sup>3</sup>    | Workers            | Local              |
|   | DNEL    | Short term Inhalation | 130 mg/m <sup>3</sup>    | Workers            | Systemic           |
|   | DNEL    | Long term Inhalation  | 130 mg/m <sup>3</sup>    | Workers            | Systemic           |
|   | toluene | DNEL                  | Long term Oral           | 8.13 mg/kg bw/day  | General population |
| DNEL  |         | Long term Inhalation  | 56.5 mg/m <sup>3</sup>   | General population | Local              |

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## SECTION 8: Exposure controls/personal protection

|  |      |                       |                        |                    |          |
|--|------|-----------------------|------------------------|--------------------|----------|
|  | DNEL | Long term Inhalation  | 56.5 mg/m <sup>3</sup> | General population | Systemic |
|  | DNEL | Long term Inhalation  | 192 mg/m <sup>3</sup>  | Workers            | Local    |
|  | DNEL | Long term Inhalation  | 192 mg/m <sup>3</sup>  | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 226 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Short term Inhalation | 226 mg/m <sup>3</sup>  | General population | Local    |
|  | DNEL | Short term Inhalation | 226 mg/m <sup>3</sup>  | General population | Systemic |
|  | DNEL | Long term Dermal      | 384 mg/kg bw/day       | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 384 mg/m <sup>3</sup>  | Workers            | Local    |
|  | DNEL | Short term Inhalation | 384 mg/m <sup>3</sup>  | Workers            | Systemic |

### PNECs

| Product/ingredient name   | Compartment Detail     | Value            | Method Detail |
|---|------------------------|------------------|---------------|
| N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]                 | Fresh water            | 0.1 mg/l         | -             |
|   | Fresh water            | 1 mg/l           | -             |
|   | Marine water           | 0.01 mg/l        | -             |
|   | Marine water           | 0.1 mg/l         | -             |
|   | Sewage Treatment Plant | 10 mg/l          | -             |
|   | Fresh water sediment   | 15.313 mg/kg dwt | -             |
|   | Marine water sediment  | 1.531 mg/kg dwt  | -             |
| bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium | Soil                   | 1.78 mg/kg dwt   | -             |
|   | Fresh water            | 0.1 mg/l         | -             |
|   | Fresh water            | 1 mg/l           | -             |
|   | Marine water           | 0.01 mg/l        | -             |
| toluene   | Sewage Treatment Plant | 28 mg/l          | -             |
|   | Fresh water sediment   | 0.082 mg/kg dwt  | -             |
|   | Marine water sediment  | 0.0082 mg/kg dwt | -             |
|   | Soil                   | 0.019 mg/kg dwt  | -             |
|   | 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

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



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

- 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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.
- 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** : Buff
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flammability (solid, gas)** : Not available.
- Upper/lower flammability or explosive limits** : Not applicable.
- Flash point** : Not applicable.
- Auto-ignition temperature** : 450°C (842°F)
- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Not applicable.
- Solubility in water** : Insoluble
- Miscible with water** : No.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : Not available.

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## SECTION 9: Physical and chemical properties

|                                 |                   |
|---------------------------------|-------------------|
| <b>Relative density</b>         | : 1.15            |
| <b>Vapour density</b>           | : Not applicable. |
| <b>Explosive properties</b>     | : Not available.  |
| <b>Oxidising properties</b>     | : Not available.  |
| <b>Particle characteristics</b> |                   |
| <b>Median particle size</b>     | : Not available.  |

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name  | Result                 | Species | Dose                  | Exposure |
|--|------------------------|---------|-----------------------|----------|
| N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide]                 | LD50 Dermal            | Rat     | >2000 mg/kg           | -        |
|  | LD50 Oral              | Rat     | 500 mg/kg             | -        |
| bis(ethyl acetoacetato-O1', O3)bis(2-methylpropan-1-olato)titanium | LD50 Oral              | Rat     | >2000 mg/kg           | -        |
|  | LD50 Oral              | Rat     | >2000 mg/kg           | -        |
| dioctyltin dilaurate   | LD50 Oral              | Rat     | 6450 mg/kg            | -        |
|  | LC50 Inhalation Gas.   | Rat     | 145000 ppm            | 1 hours  |
|  | LC50 Inhalation Gas.   | Rat     | 64000 ppm             | 4 hours  |
|  | LD50 Dermal            | Rabbit  | 15800 mg/kg           | -        |
| methanol   | LD50 Oral              | Rat     | 5600 mg/kg            | -        |
|  | LC50 Inhalation Vapour | Rat     | 450 mg/m <sup>3</sup> | 4 hours  |
| Silane, dichlorodimethyl-, reaction products with silica           | LD50 Oral              | Rat     | >5000 mg/kg           | -        |
|  | LC50 Inhalation Vapour | Rat     | 49 g/m <sup>3</sup>   | 4 hours  |
|  | LD50 Oral              | Rat     | 636 mg/kg             | -        |

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

#### Acute toxicity estimates

| Product/ingredient name                           | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| ARBOSIL® 1070 Buff                                | 12456.4      | N/A            | N/A                      | N/A                         | N/A                                 |
| N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide] | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| dioctyltin dilaurate                              | 6450         | N/A            | N/A                      | N/A                         | N/A                                 |
| methanol  | 100          | 300            | 64000                    | 3                           | N/A                                 |
| toluene   | N/A          | N/A            | N/A                      | 49                          | N/A                                 |

## SECTION 11: Toxicological information

### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| silicon dioxide         | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 25 mg     | -           |
| titanium dioxide        | Skin - Mild irritant     | Human   | -     | 72 hours 300 ug l  | -           |
| methanol                | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 mg    | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 40 mg              | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg     | -           |
| 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 uL    | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 435 mg             | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg     | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 500 mg             | -           |

### Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met.  
**Eyes** : Eye Dam. 1  
**Respiratory** : Based on available data, the classification criteria are not met.

### Sensitisation

#### Conclusion/Summary

- Skin** : Skin Sens. 1  
**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

- : Repr. 1B May damage the unborn child.

### Teratogenicity

#### Conclusion/Summary

- : Repr. 1B May damage the unborn child.

### Specific target organ toxicity (single exposure)

| Product/ingredient name  | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato) titanium | Category 3 | -                 | Respiratory tract irritation |
| methanol   | Category 3 | -                 | Narcotic effects             |
| toluene  | Category 1 | -                 | -                            |
|  | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| dioctyltin dilaurate    | Category 1 | -                 | immune system                |
| toluene                 | Category 2 | inhalation        | central nervous system (CNS) |

### Aspiration hazard

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## SECTION 11: Toxicological information

| 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** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

#### Short term exposure

- Potential immediate effects** : Causes serious eye damage.  
May cause skin sensitisation.  
skin rash or hives  
Irritating to skin.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
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** : May damage the unborn child.

**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 magna</i> - Neonate                                   | 48 hours |
|  | Chronic NOEC 12.5 mg/l Fresh water    | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate                                   | 21 days  |
| N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide] | Acute EC50 >100 mg/l Fresh water      | Algae - <i>Pseudokirchneriella subcapitata</i>  | 72 hours |
|  | Acute EC50 >100 mg/l Fresh water      | Daphnia - <i>Daphnia magna</i>  | 48 hours |
| titanium dioxide                                   | Acute EC50 >100 mg/l Fresh water      | Fish - <i>Danio rerio</i>   | 96 hours |
|  | Acute LC50 3 mg/l Fresh water         | Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate                          | 48 hours |
| methanol   | Acute LC50 6.5 mg/l Fresh water       | Daphnia - Water flea - <i>Daphnia pulex</i> - Neonate                                   | 48 hours |
|  | Acute LC50 >1000000 µg/l Marine water | Fish - Mummichog - <i>Fundulus heteroclitus</i>   | 96 hours |
| toluene  | Acute EC50 16.912 mg/l Marine water   | Algae - Green algae - <i>Ulva pertusa</i>   | 96 hours |
|  | Acute LC50 2500000 µg/l Marine water  | Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult               | 48 hours |
|  | Acute LC50 3289 mg/l Fresh water      | Daphnia - Water flea - <i>Daphnia magna</i> - Neonate                                   | 48 hours |
|  | Acute LC50 290 mg/l Fresh water       | Fish - Zebra danio - <i>Danio rerio</i> - Egg   | 96 hours |
|  | Chronic NOEC 9.96 mg/l Marine water   | Algae - Green algae - <i>Ulva pertusa</i>   | 96 hours |
| toluene  | Acute EC50 >433 ppm Marine water      | Algae - Diatom - <i>Skeletonema costatum</i>  | 96 hours |
|  | Acute EC50 11600 µg/l Fresh water     | Crustaceans - Scud - <i>Gammarus pseudolimnaeus</i> - Adult                             | 48 hours |
|  | Acute EC50 6000 µg/l Fresh water      | Daphnia - Water flea - <i>Daphnia magna</i> - 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 - <i>Daphnia magna</i>   | 21 days  |

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

### 12.2 Persistence and degradability

| Product/ingredient name                            | Test       | Result                    | Dose | Inoculum |
|--|------------|---------------------------|------|----------|
| N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide] | OECD 301 F | 100 % - Readily - 28 days | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name                            | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| N,N'-(ethoxymethylsilylene) bis[N-methylbenzamide] | -                 | -          | Readily          |
| toluene  | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

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**SECTION 12: Ecological information**

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| dioctyltin dilaurate    | -                  | <100 | Low       |
| methanol                | -0.77              | <10  | Low       |
| toluene                 | 2.73               | 90   | Low       |

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : insoluble in water.

**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** : Yes.

**Waste catalogue**

| Waste code | Waste designation  |
|------------|--|
| 08 04 09*  | waste adhesives and sealants containing organic solvents or other hazardous substances |

**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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

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



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## SECTION 14: Transport information

|                                   |     |     |     |     |
|-----------------------------------|-----|-----|-----|-----|
| <b>14.4 Packing group</b>         | -   | -   | -   | -   |
| <b>14.5 Environmental hazards</b> | 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** : 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] |
|-------------------------|------|---------------------|
| ARBOSIL® 1070 Buff      | ≥90  | 30                  |
| dioctyltin dilaurate    | <1   | 20                  |
|                         |      | 30                  |
| methanol                | <0.1 | 69                  |
| toluene                 | ≤0.1 | 48                  |

**Labelling** : Restricted to professional users.

##### Seveso Directive

This product is not controlled under the Seveso Directive.

##### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

##### International regulations

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## SECTION 15: Regulatory information

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

Not listed.

### Montreal Protocol

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

|                                |  |
|--------------------------------|--|
| <b>Australia</b>               | : Not determined.  |
| <b>Canada</b>                  | : Not determined.  |
| <b>China</b>                   | : Not determined.  |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : Not determined.  |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : Not determined.<br><b>Japan inventory (ISHL)</b> : Not determined. |
| <b>New Zealand</b>             | : Not determined.  |
| <b>Philippines</b>             | : Not determined.  |
| <b>Republic of Korea</b>       | : Not determined.  |
| <b>Taiwan</b>                  | : Not determined.  |
| <b>Thailand</b>                | : Not determined.  |
| <b>Turkey</b>                  | : Not determined.  |
| <b>United States</b>           | : Not determined.  |
| <b>Viet Nam</b>                | : 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.

|                                   |  |
|-----------------------------------|--|
| <b>Abbreviations and acronyms</b> | : ATE = Acute Toxicity Estimate<br>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<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 |
|-----------------------------------|--|

### Procedure used to derive the classification

| Classification  | Justification  |
|---|--|
| Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Repr. 1B, H360D | Calculation method<br>Calculation method<br>Calculation method |

### Full text of abbreviated H statements

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**SECTION 16: Other information**

|       |  |
|-------|--|
| H225  | Highly flammable liquid and vapour.                                |
| H226  | 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.  |
| H317  | May cause an allergic skin reaction.                               |
| H318  | Causes serious eye damage.   |
| H331  | Toxic if inhaled.  |
| H335  | May cause respiratory irritation.                                  |
| 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 Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Repr. 1B          | REPRODUCTIVE TOXICITY - Category 1B                             |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                                |
| STOT RE 1         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| 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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