SAFETY DATA SHEET
ARBOSIL 1070

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

1.1. Product identifier
Product name ARBOSIL 1070

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Fire resistant silicone sealant.

1.3. Details of the supplier of the safety data sheet
Supplier Adshead Ratcliffe & Co. Ltd.
Derby Road, Belper
Derbyshire.
DE56 1WJ
Tel. (+44) 01773 826661
Fax. (+44) 01773 821215
sds@arbo.co.uk

1.4. Emergency telephone number
Emergency telephone (+44) 01773 826661 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Eye Dam. 1 - H318
Environmental hazards Not Classified

2.2. Label elements
Pictogram

Signal word Danger
Hazard statements H318 Causes serious eye damage.
Precautionary statements P280 Wear eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

Contains TITANIUMACETYLACETATE

2.3. Other hazards

SECTION 3: Composition/information on ingredients
### ARBOSIL 1070

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>TITANIUM ACETYLACETATE</td>
<td>1-5%</td>
<td>83877-91-2</td>
<td>281-161-6</td>
</tr>
<tr>
<td>BIS-(N-METHYL BENZAMIDO)-METHYLETHOXYSILANE</td>
<td>1-5%</td>
<td>16230-35-6</td>
<td>240-354-5</td>
</tr>
<tr>
<td>n-METHYL BENZAMID</td>
<td>&lt;1%</td>
<td>613-93-4</td>
<td>210-362-3</td>
</tr>
<tr>
<td>DIOCTYLTIN DILAURATE</td>
<td>&lt;1%</td>
<td>3648-18-8</td>
<td>222-883-3</td>
</tr>
</tbody>
</table>

**Classification**
- **TITANIUM ACETYLACETATE**
  - Flam. Liq. 3 - H226
  - Skin Irrit. 2 - H315
  - Eye Dam. 1 - H318
  - STOT SE 3 - H335, H336

- **BIS-(N-METHYL BENZAMIDO)-METHYLETHOXYSILANE**
  - Skin Irrit. 2 - H315
  - Eye Irrit. 2 - H319
  - STOT SE 3 - H335

- **n-METHYL BENZAMID**
  - Acute Tox. 3 - H301
  - Eye Irrit. 2 - H319

- **DIOCTYLTIN DILAURATE**
  - Repr. 2 - H361
  - STOT RE 2 - H373

The full text for all hazard statements is displayed in Section 16.

**SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**General information**
In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation**
If inhalation causes adverse effects, remove to fresh air.

**Ingestion**
Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact**
Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

**Inhalation**
No specific symptoms known.
ARBOSIL 1070

Ingestion
May cause discomfort if swallowed.

Skin contact
Skin irritation should not occur when used as recommended.

Eye contact
May cause serious eye damage.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray, fog or mist. Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards
No unusual fire or explosion hazards noted.

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting
No specific firefighting precautions known.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear appropriate protective clothing. Avoid contact with eyes.

6.2. Environmental precautions

Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Collect and place in suitable waste disposal containers and seal securely. Clean any slippery coating that remains using a detergent / soap solution or other biodegradable cleaner.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes.

Advice on general occupational hygiene
Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class
Unspecified storage.

7.3. Specific end use(s)
Specific end use(s)  The identified uses for this product are detailed in Section 1.2.

Usage description  Gunnable sealant.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DIOCTYLTIN DILAURATE

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³

Short-term exposure limit (15-minute):  WEL 0.2 mg/m³

as Sn

WEL = Workplace Exposure Limit

TITANIUMACETYLACETATE (CAS: 83877-91-2)

DNEL

Workers - Inhalation; Long term systemic effects: 254 mg/m³
General population - Inhalation; Long term systemic effects: 303 mg/m³
General population - Dermal; Long term systemic effects: 220 mg/kg/day
General population - Oral; Long term systemic effects: 22 mg/kg/day

PNEC

- Fresh water; 0.1 mg/l
- Marine water; 0.01 mg/l
- Intermittent release; 1 mg/l
- STP; 28 mg/l
- Sediment (Freshwater); 0.0816 mg/kg
- Sediment (Marine water); 0.0082 mg/kg
- Soil; 0.019 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection

No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance  Uncured - paste. Cured - rubber.
ARBOSIL 1070

Colour Various colours.
Odour Slight.
Odour threshold Not applicable.
\( pH \) Not applicable.
Melting point Not applicable.
Initial boiling point and range Not applicable.
Flash point Not applicable.
Evaporation rate Not applicable.
Evaporation factor Not applicable.
Upper/lower flammability or explosive limits Not applicable.
Vapour pressure Not applicable.
Vapour density Not applicable.
Relative density \( 1.18 - 1.20 @ 20^\circ C \)
Solubility(ies) Insoluble in water.
Partition coefficient Not applicable.
Auto-ignition temperature As paste: 450°C
Decomposition Temperature Not determined.
Viscosity 5,000 - 7,000 P @ 20°C
Explosive properties Not applicable.
Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid
Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials
Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
ARBOSIL 1070

Hazardous decomposition products
None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects
There are no data available on this product.

Acute toxicity - oral
ATE oral (mg/kg) 22,433.04

Acute toxicity - dermal
Notes (dermal LD₅₀) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - inhalation
Notes (inhalation LC₅₀) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation
Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation
Serious eye damage/irritation Contains a substance which is classified as causing serious damage to eyes.

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

Germ cell mutagenicity
Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity
Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity
Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard
Aspiration hazard Not relevant, due to the form of the product.

Inhalation
Not relevant at normal room temperatures. When heated, toxic vapours may be formed.

Ingestion
May cause discomfort if swallowed.

Skin contact
Prolonged skin contact may cause temporary irritation.

Eye contact
May cause serious eye damage.

Toxicological information on ingredients.

TITANIUMACETYLMETHACETATE

Acute toxicity - oral
Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat
ARBOSIL 1070

Acute toxicity - inhalation
Notes (inhalation LC₅₀) LC50 18180 mg/m³, Inhalation, Rat Read-across data.

SECTION 12: Ecological Information

Ecotoxicity
In cross-linked state not soluble in water. Easily separable from water by filtration.

12.1. Toxicity
Toxicity
There are no data for the product.

Ecological information on ingredients.

TITANIUMACETYLACETATE

Acute toxicity - fish
LC₅₀, 96 hours: 1460 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates
EC₈₀, 48 hours: >= 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₈₀, 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms
TT (Toxicity threshold), 16 hours: 280 mg/l, Pseudomonas putida

12.2. Persistence and degradability

Persistence and degradability
Silicone content: biologically not degradable.

Ecological information on ingredients.

TITANIUMACETYLACETATE

Biodegradation
Expected to be readily biodegradable.
Water - Degradation 44%: 23 hours
Read-across data.

12.3. Bioaccumulative potential

Bioaccumulative potential
Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient
Not applicable.

12.4. Mobility in soil

Mobility
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods
Confirm disposal procedures with environmental engineer and local regulations.

Waste class
Not hazardous by HP4: ingredients classified as H318 <10% Recommended EWC Code 08 04 10
ARBOSIL 1070

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

EU legislation
Regulation (EC) 1907/2006 REACH (as amended).
Regulation (EC) 1272/2008 CLP (as amended).

Guidance
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments
General review

Revision date
13/04/2017

Revision
1

Supersedes date
09/10/2015

SDS number
10405
ARBOSIL 1070

Hazard statements in full

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.