



SAFETY DATA SHEET ARBOSIL 1071

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1. Product identifier

Product name ARBOSIL 1071

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

Identified uses Fire resistant silicone sealant.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Adsheed Ratcliffe & Co. Ltd.
Derby Road, Belper
Derbyshire.
DE56 1WJ
T: (+44) 01773 826661
F: (+44) 01773 821215
E: sds.carlisle@ccm-europe.com

1.4. Emergency telephone number

Emergency telephone NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only).
For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

Reacts with water liberating small amounts of methanol. This product contains octamethylcyclotetrasiloxane which is on the GB and the EU Candidate List of SVHCs (PBT, vPvB).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ARBOSIL 1071

Octamethylcyclotetrasiloxane	< 0.1%
CAS number: 556-67-2	EC number: 209-136-7
	REACH registration number: 01-2119529238-36-XXXX
M factor (Chronic) = 10	
Classification	
Flam. Liq. 3 - H226	
Repr. 2 - H361f	
Aquatic Chronic 1 - H410	

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	Unlikely route of exposure. If inhalation causes adverse effects, remove to fresh air.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. 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.
Ingestion	May cause discomfort if swallowed. Product may hydrolyse in gastro-intestinal tract and produce methanol. Possible signs of methanol poisoning can include: daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance. Symptoms upon increasing intoxication: loss of eyesight.
Skin contact	No specific symptoms known.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	Treat symptomatically.
Specific treatments	Antidote for methanol poisoning is ethanol.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam, carbon dioxide or dry powder. Water spray, fog or mist.
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	Reacts with water liberating small amounts of methanol.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

ARBOSIL 1071

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.

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.

Precautionary measures to prevent the occurrence of secondary hazards Eliminate all ignition sources if safe to do so.

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 Good personal hygiene procedures should be implemented.

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.

7.3. Specific end use(s)

Usage description Gunnable sealant.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Silane, dichlorodimethyl-, reaction products with silica

Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust

Titanium dioxide

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Calcium carbonate

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

WEL = Workplace Exposure Limit.

Calcium carbonate (CAS: 471-34-1)

ARBOSIL 1071

DNEL	Workers - Inhalation; Long term local effects: 6.36 mg/m ³
PNEC	STP; 100 mg/l

Octamethylcyclotetrasiloxane (CAS: 556-67-2)

DNEL	Workers - Inhalation; Long term systemic effects: 73 mg/m ³ Workers - Inhalation; Long term local effects: 73 mg/m ³
PNEC	Fresh water; 1.5 µg/l marine water; 0.15 µg/l STP; 10 mg/l Sediment (Freshwater); 3 mg/kg Sediment (Marinewater); 0.3 mg/kg Soil; 0.54 mg/kg food

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

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

Hand protection

Hand protection is recommended to prevent mechanical injuries.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Uncured -paste. Cured - rubber.
Colour	White.
Odour	Mild (or faint).
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	Not applicable.
Flash point	93.3°C ASTM D 93
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.

ARBOSIL 1071

Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.4 @ 25°C
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
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

Other information	Not known.
--------------------------	------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
-------------------	--

10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
------------------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Reacts with water liberating small amounts of methanol.
---	---

10.4. Conditions to avoid

Conditions to avoid	Water, moisture.
----------------------------	------------------

10.5. Incompatible materials

Materials to avoid	Water, moisture. Strong acids. Strong alkalis.
---------------------------	--

10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Oxides of silicon Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Temperatures of ~ 150 C may generate: A small amount of formaldehyde, through oxidation.
---	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	There are no data available on this product.
------------------------------	--

Acute toxicity - oral

Summary	Based on available data the classification criteria are not met.
----------------	--

Notes (oral LD₅₀)	For this endpoint no toxicological data is available for the whole product. ATEmix: 3203 mg/kg
-------------------------------------	--

Acute toxicity - dermal

ARBOSIL 1071

Summary	Based on available data the classification criteria are not met.
Notes (dermal LD₅₀)	For this endpoint no toxicological data is available for the whole product. ATEmix: 3140 mg/kg
<u>Acute toxicity - inhalation</u>	
Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC₅₀)	For this endpoint no toxicological data is available for the whole product.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Based on available data the classification criteria are not met.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Summary	Based on available data the classification criteria are not met.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant, due to the form of the product.
<u>Inhalation</u>	
Inhalation	No specific health hazards known.
<u>Ingestion</u>	
Ingestion	No specific symptoms known. Product may hydrolyse in gastro-intestinal tract and produce methanol. Possible signs of methanol poisoning can include: daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance. Symptoms upon increasing intoxication: loss of eyesight.
<u>Skin contact</u>	
Skin contact	Skin irritation should not occur when used as recommended.
<u>Eye contact</u>	
Eye contact	May cause temporary eye irritation.
<u>Acute and chronic health hazards</u>	
Acute and chronic health hazards	Moisture curing process releases a small amount of methanol which is irritating to mucous membranes and has skin drying and narcotic effects.

Toxicological information on ingredients.

Octamethylcyclotetrasiloxane

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 4,800.0
mg/kg)

ARBOSIL 1071

Species	Rat
ATE oral (mg/kg)	4,800.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	2,375.0
Species	Rat
ATE dermal (mg/kg)	2,375.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ dust/mist mg/l)	36.0
Species	Rat
ATE inhalation (dusts/mists mg/l)	36.0
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Suspected of damaging fertility.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity There are no data for the product.

Ecological information on ingredients.

Octamethylcyclotetrasiloxane

Acute aquatic toxicity

Acute toxicity - fish EC₅₀, 96 hours: >0.022 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >0.015 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, 96 hours: >0.022 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Non-rapidly degradable

M factor (Chronic) 10

Chronic toxicity - fish early life stage NOEC, 93 days: >0.0044 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: >0.015 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability This product is not expected to be readily biodegradable.

ARBOSIL 1071

Ecological information on ingredients.

Octamethylcyclotetrasiloxane

Biodegradation	- Degradation 3.7%: 29 days OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test) Not readily biodegradable.
-----------------------	---

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

Octamethylcyclotetrasiloxane

Bioaccumulative potential BCF: 12400 L/kg, Pimephales promelas (Fat-head Minnow)

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 contains octamethylcyclotetrasiloxane which is on the GB and the EU Candidate List of SVHCs (PBT, vPvB).

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of contents/container in accordance with national regulations.

Waste class Recommended EWC Code 08 04 10

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

ARBOSIL 1071

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 Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/720. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1567. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/758, UK SI 2019/858 and UK SI 2019/1144. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1577. Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance	Workplace Exposure Limits EH40.
Health and environmental listings	This product contains octamethylcyclotetrasiloxane which is on the GB and the EU Candidate List of SVHCs (PBT, vPvB).
Restrictions (Annex XVII Regulation 1907/2006)	No relevant restrictions.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

ARBOSIL 1071

Abbreviations and acronyms used in the safety data sheet	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>LOEC: Lowest Observed Effect Concentration.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification abbreviations and acronyms	<p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Flam. Liq. = Flammable liquid</p> <p>Repr. = Reproductive toxicity</p>
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ SDS from supplier.
Revision comments	Revised sections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16.
Revision date	17/05/2022
Revision	4
Supersedes date	15/05/2017
SDS number	10105
SDS status	Approved.
Hazard statements in full	<p>H226 Flammable liquid and vapour.</p> <p>H361f Suspected of damaging fertility.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>

ARBOSIL 1071

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.