



SAFETY DATA SHEET

ARBOSIL 1081 Translucent

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 1081 Translucent

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

Identified uses Glass and sanitary sealant

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Adshead 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

This product does not contain any substances classified as PBT or vPvB. Product may release acetic acid.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Triacetoxylethylsilane < 5%		
CAS number: 17689-77-9	EC number: 241-677-4	REACH registration number: 01-2119881778-15-XXXX
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318		
Triacetoxymethylsilane < 5%		
CAS number: 4253-34-3	EC number: 224-221-9	REACH registration number: 01-2119962266-32-XXXX
Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318		
Oligomeric ethyl and methyl acetoxysilanes < 3%		
CAS number: —		
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318		

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

Composition comments Polydimethylsiloxane with fillers, auxiliaries. acetoxysilane crosslinking agent.

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	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.
Skin contact	Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.
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	May cause discomfort.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. 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 Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Acetic acid.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

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. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Do not allow into watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

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. Provide adequate ventilation. Good personal hygiene procedures should be implemented. For personal protection, see Section 8. Product may release acetic acid. No smoking, sparks, flames or other sources of ignition near spillage. Take precautionary measures against static discharge.

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)

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

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Usage description Gunnable sealant.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Acetic acid

Long-term exposure limit (8-hour TWA): WEL 10 ppm 25 mg/m³

Short-term exposure limit (15-minute): WEL 20 ppm 50 mg/m³

WEL = Workplace Exposure Limit.

Triacetoxylethylsilane (CAS: 17689-77-9)

DNEL	Workers - Inhalation; Long term local effects: 32.5 mg/m ³ Workers - Inhalation; Short term local effects: 32.5 mg/m ³
PNEC	Fresh water; 0.2 mg/l Fresh water, Intermittent release; 1.7 mg/l marine water; 0.02 mg/l STP; 1 mg/l Sediment (Freshwater); 0.74 mg/kg Sediment (Marinewater); 0.074 mg/kg Soil; 0.031 mg/kg

Triacetoxymethylsilane (CAS: 4253-34-3)

DNEL	Workers - Inhalation; Long term local effects: 31 mg/m ³ Workers - Inhalation; Short term local effects: 61 mg/m ³
PNEC	STP; 6.9 mg/l Sediment (Freshwater); 4.8 mg/kg Sediment (Marinewater); 0.48 mg/kg Soil; 0.19 mg/kg

Acetic acid (CAS: 64-19-7)

DNEL	Workers - Inhalation; Long term local effects: 25 mg/m ³ Workers - Inhalation; Short term local effects: 25 mg/m ³
PNEC	Fresh water; 3.058 mg/l marine water; 0.306 mg/l Intermittent release; 30.58 mg/l STP; 85 mg/l Sediment (Freshwater); 11.36 mg/kg Sediment (Marinewater); 1.136 mg/kg Soil; 0.47 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

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Eye/face protection	Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	Wear protective gloves. Recommended glove types: Protective gloves made of butyl rubber Thickness of the material: > 0.3 mm Breakthrough time: > 480 min Recommended glove types: Protective gloves made of nitrile rubber Thickness of the material: > 0.1 mm Breakthrough time: 60 - 120 min
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash at the end of each work shift 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. Gas filter type ABEK Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136.
Environmental exposure controls	Avoid discharge into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Uncured -paste. Cured - rubber.
Colour	Clear.
Odour	Acetic acid.
Odour threshold	Acetic acid: 0.025 mg/m ³
pH	Product displays acidic reaction with water.
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 4 (acetic acid) Upper flammable/explosive limit: 17 (acetic acid)
Vapour pressure	Not applicable.
Vapour density	No information available.
Relative density	1.02 @ 20°C ISO 1183-1 A
Bulk density	1.02 g/cm ³ ISO 1183-1 A
Solubility(ies)	Practically insoluble Hydrolytic decomposition occurs.
Partition coefficient	No information available.

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Auto-ignition temperature	~ 400°C
Decomposition Temperature	No information available.
Viscosity	800000 mPa s @ °C
Explosive properties	Not applicable.
Explosive under the influence of a flame	No
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other information None.

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. Moisture curing process releases: a small amount of acetic acid

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Moisture. Heat, sparks, flames.

10.5. Incompatible materials

Materials to avoid Reacts with water, basic substances and alcohols. Reaction causes the formation of acetic acid.

10.6. Hazardous decomposition products

Hazardous decomposition products By hydrolysis: Acetic acid. 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 By analogy to a tested similar product.

Acute toxicity - oral

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

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat Conclusion by analogy.

ATE oral (mg/kg) 12,843.07

Acute toxicity - dermal

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

Notes (dermal LD₅₀) LD₅₀ >2009 mg/kg, Dermal, Rabbit Conclusion by analogy.

Acute toxicity - inhalation

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

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Skin corrosion/irritation

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

Animal data Not irritating (rabbit). Conclusion by analogy.

Serious eye damage/irritation

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

Serious eye damage/irritation in vitro assay; Bovine cornea: No eye irritation. Conclusion by analogy OECD 437. Not irritating (rabbit). Conclusion by analogy.

Respiratory sensitisation

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

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

Skin sensitisation

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

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

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

Inhalation No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

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

Eye contact Evaluation in analogy to a tested similar product: Slight irritation possible.

Acute and chronic health hazards Moisture curing process releases a small amount of acetic acid which can irritate skin and mucous membranes.

Toxicological information on ingredients.

Triacetoxethylsilane

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,460.0

Species Rat

ATE oral (mg/kg) 1,460.0

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SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. The product is not expected to be hazardous to the environment. In cross-linked state not soluble in water. Easily separable from water by filtration.

12.1. Toxicity

Toxicity By analogy to a tested similar product. Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 10 - < 100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 10 - < 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, 24 hours: > 10 - < 100 mg/l, Navicula pelliculosa
NOEC, 24 hours: > 1 mg/l, Navicula pelliculosa

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : > 1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, : > 1 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability Silicone content: biologically not degradable. The product of hydrolysis (acetic acid) is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation in aquatic organisms is not expected.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility Silicone content: Insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

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 waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations.

Waste class Recommended EWC Code 08 04 10

SECTION 14: Transport information

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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 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).
Health and Safety at Work etc. Act 1974 (as amended).
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.
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

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.

Restrictions (Annex XVII Regulation 1907/2006)

No relevant restrictions.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

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>LOAEC: Lowest Observed Adverse Effect Concentration.</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>Acute Tox. = Acute toxicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Skin Corr. = Skin corrosion</p>
Key literature references and sources for data	SDS from supplier. Source: European Chemicals Agency, http://echa.europa.eu/
Revision comments	Revised sections: 1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 15, 16.
Revision date	03/05/2022
Revision	2
Supersedes date	15/05/2017
SDS number	20333
SDS status	Approved.
Hazard statements in full	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p>

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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.