



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation of Hazardous Chemical Agents (HCA)

Revision date 21-May-2025

Revision Number 1

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

Product identifier

Product Name DEN BRAVEN AQUA-SILICONE

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Sealant.

Restrictions on use No information available

Supplier's details

Supplier

Bostik South Africa
1 Beverley Close
Montague Gardens
Cape Town
South Africa
7441
Tel: +27 21 555 7400

Non-Emergency Telephone Number+27 21 555 7400

E-mail address psra.za@bostik.com

Emergency telephone number

Emergency Telephone Tel: +27 21 555 7400

Restrictions on emergency number 8am - 5pm (Monday - Friday)

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

GHS Label elements, including precautionary statements

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards which do not result in classification

Small amounts of acetic acid (CAS 64-19-7) are formed by hydrolysis and released upon curing. Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

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Substance

Not applicable

Mixture

Chemical name	CAS No.	Weight-%
Triacetoxyp(ropyl)silane	17865-07-5	1 - <5
Silanetriol, methyl-, triacetate	4253-34-3	1 - <3

SECTION 4: First aid measures

Description of necessary first aid measures

General advice	Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor.
Skin contact	Wash with soap and water.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms	None known.
Effects of Exposure	No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO ₂), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media	Full water jet.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous combustion products	Carbon oxides. Carbon dioxide (CO ₂). Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.
Special protective actions for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not get in eyes, on skin, or on clothing. Use personal protective equipment as
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required. Ensure adequate ventilation.

Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for cleaning up Pick up and transfer to properly labelled containers.

Methods for containment Do not scatter spilled material with high pressure water streams.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Take off all contaminated clothing and wash it before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Protect from moisture.

Recommended storage temperature Keep at temperatures between 10 and 35 °C.

Incompatible materials Strong oxidising agents.

SECTION 8: Exposure controls/personal protection

Working area parameters, subject to mandatory control (MAC or TSEL)

Occupational exposure limits Small amounts of acetic acid (CAS 64-19-7) are formed by hydrolysis and released upon curing

Chemical name	Occupational exposure limits	Restricted exposure limits
Acetic acid 64-19-7		TWA: 20 ppm STEL: 30 ppm

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

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Skin and body protection

No special protective equipment required.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Wear protective butyl rubber gloves	>0.3 mm	>480 minutes
Short term	Wear protective nitrile rubber gloves	>0.1 mm	>120 minutes

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Paste
Physical state	Solid
Colour	See section 1 for more information
Odour	Acetic acid
Odour threshold	No information available

Property	Values	Remarks • Method
pH	No data available	Not applicable Insoluble in water
pH (as aqueous solution)	No data available	No information available
Melting point / freezing point	No data available	No information available
Initial boiling point and boiling range	No data available	No information available
Flash point	> 100 °C / 212 °F	
Evaporation rate	No data available	No information available
Flammability	No data available	No information available
Upper/lower flammability or explosive limits		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	No information available
Relative vapour density	No data available	No information available
Relative density	No data available	No information available
Solubility(ies)		
Water solubility	Insoluble in water	
Solubility in other solvents	No data available	No information available
Partition coefficient	No data available	No information available
Autoignition temperature	No data available	No information available
Decomposition temperature	No data available	No information available
Kinematic viscosity	21 mm ² /s	
Dynamic viscosity	No data available	No information available

Other information

Explosive properties	No information available
Oxidising properties	No information available
Density	1.03

SECTION 10: Stability and reactivity

Reactivity

Product cures with moisture.

Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions None under normal processing.

Conditions to avoid Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition. Product cures with moisture.

Incompatible materials Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

Information on the likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 111,619.60 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapour) >20 mg/l
ATEmix (inhalation-dust/mist) >5 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silanetriol, methyl-, triacetate	LD50 = 1600 mg/kg (Rattus) OECD 401	-	-

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

Skin corrosion/irritation The assessment of the result of testing was done in accordance with the guideline of the Commission 92/ 69/ EEC.

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal		6 days	Product score <=1 Non-irritant

Serious eye damage/eye irritation By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void). The assessment of the result of testing was done in accordance with the guideline of the Commission 92/ 69/ EEC.

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye		6 days	Product score <=1 Non-irritant

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Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Triacetoxypropylsilane	EC50 (72h): approx. 24 mg/l(Pseudokirchneriella subpicata)	LC50 (96h) = 108.89 mg/L	EC50 (48h) = 89.59 mg/L
Silanetriol, methyl-, triacetate	EC50 (72h): >500 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) >500 mg/l (Brachydanio rerio)	EC50 (48h) >500 mg/l (Daphnia magna)

Persistence and degradability No information available.

Bioaccumulative potential

Component Information

Chemical name	Partition coefficient
Triacetoxypropylsilane	1.23
Silanetriol, methyl-, triacetate	-2.4

Mobility in soil No information available.

Other adverse effects No information available.

SECTION 13: Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

Contaminated packaging Handle contaminated packages in the same way as the product itself.

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SECTION 14: Transport information

<u>IMDG</u>	Not regulated
<u>IATA</u>	Not regulated
<u>ADR</u>	Not regulated

SECTION 15: Regulatory information

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

National regulations

South Africa - Occupational Injuries and Diseases - Chemical Agents Not applicable

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

Europe

Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Directive 2011/65/EU (EU RoHS 2), as amended by the Delegated Directive (EU) 2015/863 (EU RoHS 3)

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

SECTION 16: Other information

Prepared By	Product Safety & Regulatory Affairs
Revision date	21-May-2025
Revision Note	No information available.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database

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International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Disclaimer

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End of Safety Data Sheet