



# SAFETY DATA SHEET

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

Revision date 07-Apr-2025

Revision Number 1

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

### Product identifier

**Product Name** DEN BRAVEN 1001 UNIVERSAL 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-%
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	RR-100252-4	20 - <40
Triacetoxyp(ropyl)silane	17865-07-5	1 - <3
Silanetriol, methyl-, triacetate	4253-34-3	1 - <3
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	64359-81-5	<0.1

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

Chemical name	Related CAS no
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics RR-100252-4 ( 20 - <40 )	64742-46-7

## SECTION 4: First aid measures

### Description of necessary first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a doctor.
<b>Skin contact</b>	Wash with soap and water.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.
<b>Ingestion</b>	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

<b>Symptoms</b>	None known.
<b>Effects of Exposure</b>	No information available.

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

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

<b>Suitable Extinguishing Media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
<b>Unsuitable extinguishing media</b>	Full water jet.
<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating gases and vapours.

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**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). 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 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 This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

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

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**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.

**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** Clear  
**Odour** Acetic acid  
**Odour threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	Not applicable Insoluble in water
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Melting point / freezing point</b>	No data available	No information available
<b>Initial boiling point and boiling range</b>	No data available	No information available
<b>Flash point</b>	> 100 °C / 212 °F	
<b>Evaporation rate</b>	No data available	No information available
<b>Flammability</b>	No data available	
<b>Upper/lower flammability or explosive limits</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapour pressure</b>	No data available	No information available
<b>Relative vapour density</b>	No data available	No information available
<b>Relative density</b>	No data available	No information available
<b>Solubility(ies)</b>		
<b>Water solubility</b>	Insoluble in water	Product cures with moisture
<b>Solubility in other solvents</b>	No data available	No information available
<b>Partition coefficient</b>	No data available	No information available

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Autoignition temperature	No data available	No information available
Decomposition temperature	No data available	No information available
Kinematic viscosity	21 mm <sup>2</sup> /s	
Dynamic viscosity	No data available	No information available

## Other information

Explosive properties	No information available
Oxidising properties	No information available
Density	0.97

## SECTION 10: Stability and reactivity

Reactivity	Product cures with moisture.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Product cures with moisture. 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.
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	Based on available data, the classification criteria are not met. May cause sensitisation in susceptible persons.
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.
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### Acute toxicity

### Numerical measures of toxicity

#### The following ATE values have been calculated for the mixture

ATEmix (oral)	150,853.70 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
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03%	LD50 > 5000 mg/kg (Rattus) OECD 401	LD50 > 3160 mg/kg (Oryctolagus cuniculus)	LC50 Inhalation(4h) >5266 mg/m <sup>3</sup> (Rattus)

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aromatics		OECD 402	
Silanetriol, methyl-, triacetate	LD50 = 1600 mg/kg (Rattus) OECD 401	-	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	=1636 mg/kg (Rattus)	> 2000 mg/kg (Oryctolagus cuniculus)	=0.26 mg/L (Rattus) 4 h

## 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			Non-irritant
	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			Non-irritant
	Rabbit	eye		6 days	Product score ≤1 Non-irritant

### Respiratory or skin sensitisation

No classification is proposed, based on conclusive negative data. OECD Test No. 406: Skin Sensitisation. May cause sensitisation in susceptible persons.

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	No sensitisation responses were observed

4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)			
Method	Species	Exposure route	Results
OECD 406	Guinea pig	Dermal	Sensitising

### 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

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## Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	EL50 (72h) >10,000 mg/L (Skeletonema costatum) ISO 10253	LL50 (96h) > 1028 mg/L (Scophthalmus maximus) OECD 203	LL50 (48h) > 3193 mg/l (Acartia tonsa)
Triacetoxyp(ropyl)silane	EC50 (72h): approx. 24 mg/l (Pseudokirchneriella subcapitata)	LC50 (96h) = 108.89 mg/L	EC50 (48h) = 89.59 mg/L
Silanetriol, methyl-, triacetate	EC50 (72h): >500 mg/l (Pseudokirchneriella subcapitata)	LC50 (96h) >500 mg/l (Brachydanio rerio)	EC50 (48h) >500 mg/l (Daphnia magna)
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	EC50 (72h) =0.025 mg/L Algae (Scenedesmus subspicatus)(OECD 201)	LC50 (96h) 0.0078 mg/L (Oncorhynchus mykiss)(OECD 203)	EC50 (48h) 0.0097 mg/L Daphnia magna (OECD 202)

## Persistence and degradability

No information available.

### 4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT] (64359-81-5)

Method	Exposure time	Value	Results
OECD Test No. 308: Aerobic and Anaerobic Transformation in Aquatic Sediment Systems		Half-life	1.1-1.3 days

## Bioaccumulative potential

### Component Information

Chemical name	Partition coefficient
Triacetoxyp(ropyl)silane	1.23
Silanetriol, methyl-, triacetate	-2.4
4,5-dichloro-2-octyl-2H-isothiazol-3-one [DCOIT]	4.4

## 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.

## SECTION 14: Transport information

### Note:

Keep from freezing

### IMDG

Not regulated

### IATA

Not regulated

### ADR

Not regulated

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## 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 07-Apr-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  
International Uniform Chemical Information Database (IUCPID)  
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



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## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

**End of Safety Data Sheet**