

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

Revision date 12-Feb-2025 Revision Number 1

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

Product identifier

Product Name DEN BRAVEN HIGH TACK

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Adhesives and/or sealants.

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 methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

SECTION 3: Composition/information on ingredients

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Substance

Not applicable

Mixture

Chemical name	CAS No.	Weight-%
Trimethoxyvinylsilane	2768-02-7	1 - <3
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - <1
N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamin	3069-29-2	0.1 - <1
е		

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 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Small amounts of toxic methanol are released by hydrolysis. Call a doctor immediately.

Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with

water.

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 Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically.

SECTION 5: Firefighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), 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 monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Silicon

dioxide.

Special protective actions for

fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation. Do not get

in eyes, on skin, or on clothing.

Environmental precautions

Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section **Environmental precautions**

12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

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.

Do not eat, drink or smoke when using this product. Wash hands before breaks and after General hygiene considerations

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

Keep away from food, drink and animal feedingstuffs.

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

None known based on information supplied. Incompatible materials

SECTION 8: Exposure controls/personal protection

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

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon Occupational exposure limits

> 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

Chemical name	Occupational exposure limits	Restricted exposure limits
Methyl alcohol		TWA: 400 ppm
67-56-1		STEL: 500 ppm
		Sk*

limits

Biological occupational exposure 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

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Evewash 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.

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

Paste **Appearance** Solid Physical state

Colour See section 1 for more information

Odour Characteristic

Odour threshold No information available

Property Values Remarks • Method No data available Not applicable

pH (as aqueous solution) No data available No information available Melting point / freezing point No data available No information available No information available Initial boiling point and boiling No data available

range

Flash point > 60 °C / 140 °F

No data available No information available **Evaporation rate** No data available No information available **Flammability**

Upper/lower flammability or explosive limits

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

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 Reacts with water Product cures with Reacts with water

moisture

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 21 mm²/s

Kinematic viscosity

No data available No information available **Dynamic viscosity**

Other information

Explosive properties No information available **Oxidising properties** No information available

1.54 **Liquid Density**

SECTION 10: Stability and reactivity

Reactivity Product cures with moisture.

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Chemical stability Stable under normal conditions.

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 materialsNone known based on information supplied.

Hazardous decomposition

products

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon

curing.

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.

Acute toxicity .

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) >5000 mg/kg
ATEmix (dermal) >5000 mg/kg
ATEmix (inhalation-gas) >20000 ppm
ATEmix (inhalation-vapour) 456.60 mg/l
ATEmix (inhalation-dust/mist) >5 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trimethoxyvinylsilane	LD50 = 7120 -7236 mg/kg	= 3540 mg/kg (Oryctolagus	LC50 (4hr) 16.8 mg/l (Rattus)
	(Rattus) OECD 401	cuniculus)	OECD TG 403
N-(3-(trimethoxysilyl)propyl)ethylene	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44
diamine	-		mg/L air
N-[3-(Dimethoxymethylsilyl)propyl]-e	=200 - 2000 mg/Kg (Rattus)	>5000 mg/Kg (Oryctolagus	> 5.2 mg/L (Rattus)4 h
thylenediamine	(OECD 401)	cuniculus) (OECD 403)	
		(OECD 402)	

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

Skin corrosion/irritationNo information available.

Trimethoxyvinylsilane (2768-02-7)					
Method Species Exposure route Effective dose Exposure time Results				Results	
	Rabbit	Dermal	0.5 mL	24 hours	Non-irritant

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N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404:	Rabbit				Mild skin irritant
Acute Dermal					
Irritation/Corrosion					

Serious eye damage/eye irritation No information available.

Trimethoxyvinylsilane (2768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye		24 hours	Non-irritant
Acute Eye					
Irritation/Corrosion					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405:	Rabbit	eye			Eye Damage
Acute Eye		1			
Irritation/Corrosion					

Respiratory or skin sensitisation

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

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

Germ cell mutagenicity

No information available.

Trimethoxyvinylsilane (2768-02-7)				
Method	Species	Results		
OECD Test No. 471: Bacterial Reverse Mutation Test	in vitro	Not mutagenic		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)				
Method	Species	Results		
OECD Test No. 471: Bacterial Reverse Mutation Test	Mammalian cells in vitro	Negative		
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	Mammalian cells in vitro	Negative		

Carcinogenicity No information available.

Reproductive toxicity No information available.

Trimethoxyvinylsilane (2768-02-7)				
Method	Species	Results		
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test		Not Classifiable		

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	

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Method	Species	Results
OECD Test No. 422: Combined Repeated Dose	Rat	NOAEL >500 mg/Kg
Toxicity Study with the	Oral	
Reproduction/Developmental Toxicity Screening		
Test		

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Trimethoxyvinylsilane (2768-02-7)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 413:	Rat	Inhalation vapour		90 days	0.058 NOAEL
Sub-chronic Inhalation					
Toxicity: 90-day Study					

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422:	Rat	Sub-acute oral		28 days	NOAEL >500 mg/kg
Combined Repeated Dose		toxicity gavage			
Toxicity Study with the					
Reproduction/Developme					
ntal Toxicity Screening					
Test					

Aspiration hazard No information available.

SECTION 12: Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Trimethoxyvinylsilane	EC 50 (72h) > 957 mg/l	LC50 (96h) = 191 mg/l	EC50(48hr) 168.7mg/l
	(Desmodesmus subspicatus)	(Oncorhynchus mykiss)	(Daphnia magna)
	EU Method C.3		
N-(3-(trimethoxysilyl)propyl)ethylene	-	LC50 (96H) =597 mg/L	EC50 (48h) =81mg/L Daphnia
diamine		(Danio rerio)Semi-static	magna Static

Persistence and degradability No information available.

Trimethoxyvinylsilane (2768-02-7)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric			biodegradable
Respirometry Test (TG 301 F)			-

Bioaccumulative potential

Component Information

Chemical name	Partition coefficient	
Trimethoxyvinylsilane	1.1	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3	

Mobility in soilNo information available.Other adverse effectsNo information available.

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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

IMDG Not regulated

IATA Not regulated

ADR 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 >=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 12-Feb-2025

Revision NoteNo 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

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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 (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

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