



# SAFETY DATA SHEET

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

Revision date 05-Mar-2025

Revision Number 1

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

### Product identifier

Product Name ALCO-FLEX NEUTRAL SILICONE

### 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

Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1
Carcinogenicity	Category 2

### GHS Label elements, including precautionary statements



Signal word Danger

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## Hazard statements

Causes serious eye irritation.  
May cause an allergic skin reaction.  
May cause cancer.

## Precautionary Statements - Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash face, hands and any exposed skin thoroughly after handling.  
Avoid breathing dust, fume, gas, mist, vapors and spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

### Skin

IF ON SKIN: Wash with plenty of water and soap.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off all contaminated clothing and wash it before reuse.

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## Precautionary Statements - Storage

Store locked up.

## Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

## Other hazards which do not result in classification

Small amounts of 2-butanone, oxime (CAS 96-29-7) are formed by hydrolysis and released upon curing.

## SECTION 3: Composition/information on ingredients

### Substance

Not applicable

### Mixture

Chemical name	CAS No.	Weight-%
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	1 - <3
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	22984-54-9	1 - <3
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	0.1 - <1
Silane	-	0.1 - <1

## 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. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
<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.

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<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.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

## Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	None known.
<b>Effects of Exposure</b>	May cause cancer.

## 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.
<b>Hazardous combustion products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ). Silicon oxides. Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.
<b>Special protective actions for fire-fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.

## **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Ensure adequate ventilation.
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### Environmental precautions

<b>Environmental precautions</b>	Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.
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### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Pick up and transfer to properly labelled containers.
<b>Methods for containment</b>	Do not scatter spilled material with high pressure water streams.

<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
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## **SECTION 7: Handling and storage**

### Precautions for safe handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.
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**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 methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Chemical name	Occupational exposure limits	Restricted exposure limits
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7	-	TWA: 0.2 mg/m <sup>3</sup> except Cyhexatin Sn Sk*

Chemical name	Occupational exposure limits	Restricted exposure limits
Trade secret		TWA: 400 ppm STEL: 500 ppm Sk*

**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** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

**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** Multiple Colours

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**Odour** Slight  
**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>	> 35 °C / 95.0 °F	No information available
<b>Flash point</b>	>= 93 °C / 199.4 °F	CC (closed cup)
<b>Evaporation rate</b>	No data available	No information available
<b>Flammability</b>	No data available	No information 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	No information available
<b>Solubility in other solvents</b>	No data available	No information available
<b>Partition coefficient</b>	No data available	No information available
<b>Autoignition temperature</b>	No data available	No information available
<b>Decomposition temperature</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	No information available
<b>Dynamic viscosity</b>	No data available	No information available

**Other information**

<b>Explosive properties</b>	No information available
<b>Oxidising properties</b>	No information available
<b>Liquid Density</b>	0.93 - 1.13 g/cm <sup>3</sup>

## SECTION 10: Stability and reactivity

<b>Reactivity</b>	Product cures with moisture.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	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.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	May cause sensitisation by skin contact. Specific test data for the substance or mixture is

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not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may cause redness and irritation.

## Ingestion

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## Symptoms related to the physical, chemical and toxicological characteristics

### Symptoms

Itching. Rashes. Hives. May cause redness and tearing of the eyes.

## Acute toxicity

### Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	>5000 mg/kg
ATEmix (dermal)	18,437.30 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
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	LD50 > 2000 mg/kg (Rattus) OECD 425	LD50 > 2009 mg/kg (Rattus) OECD 402	-
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	LD50 = 2463 mg/Kg (Rattus) (OECD 401)	LD50 >2000 mg/Kg (Rattus) (OECD 402)	-
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LD50 =892 mg/Kg (Rattus) (OECD 401)	LD50 >2000 mg/Kg (rattus)	-
Silane	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air

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

### Skin corrosion/irritation

No information available.

Silane					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

Silane					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Eye Damage

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

### Germ cell mutagenicity

No information available.

Silane		
Method	Species	Results

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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** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

## Legend

**IARC (International Agency for Research on Cancer)**  
Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

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

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Silane					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	Rat	Sub-acute oral toxicity gavage		28 days	NOAEL >500 mg/kg

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	EC50 (72h) = 16 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) > 120 mg/L (Oncorhynchus mykiss) OECD 203	EC50 (48h) > 120 mg/L (Daphnia magna) OECD 202
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	EC50 (72h) = 94 mg/L (Pseudokirchneriella subcapitata) OECD 201	EC50 (96h) >120 mg/L (Oncorhynchus mykiss) Freshwater static (OECD guideline 203)	EC50 (48h) > 120 mg/L (Daphnia magna) OECD 202
Dimethylbis[(1-oxoneodecyl)oxy]stannane	-	-	EC50 =39 mg/L (Daphnia magna) (OECD 201)
Silane	-	LC50 (96H) =597 mg/L (Danio rerio) Semi-static	EC50 (48h) =81mg/L Daphnia magna Static

**Persistence and degradability** No information available.

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## Dimethylbis[(1-oxoneodecyl)oxy]stannane (68928-76-7)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	0%	Not readily biodegradable
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	3%	Not readily biodegradable

### Bioaccumulative potential

### Component Information

Chemical name	Partition coefficient
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	1.69
2-Butanone, O,O',O''-(methylsilylidyne)trioxime	1.69
Silane	-0.3

**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

**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

Chemical name	South Africa - Occupational Injuries and Diseases - Chemical Agents
Dimethylbis[(1-oxoneodecyl)oxy]stannane - 68928-76-7	Listed

### International Regulations

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



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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** 05-Mar-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 (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

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