



Code	Description	Size	Colour
19313	Toptec Cleanroom Silicone	310ml	Titania
20187	Toptec Cleanroom Silicone	600ml	Titania

Recommended use:		Sealant
HSNO group standard:		Not Subject
UN number, shipping name and packaging group:		Not Subject
Supplier contact details:	Holdfast NZ Ltd	Freephone: 0800 TOPTEC
	14 Avalon Drive	Phone: (07) 847 5540
	Nawton	Fax: (07) 847 0324
	Hamilton 3200	Email: <a href="mailto:sales@toptec.co.nz">sales@toptec.co.nz</a>
	New Zealand	Website: <a href="http://www.toptec.co.nz">www.toptec.co.nz</a>
<b>NZ Poisons Centre 0800 POISON (0800 764 766)   NZ Emergency Services: 111</b>		

## 2. Hazards Identification

### 2.1 Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statements
6.3B	Mildly irritating to the skin
6.4A	Irritating to the eye
6.5B	Contact sensitisers
6.7B	Suspected human carcinogens
6.9B	Harmful to human target organs or systems (Oral, inhalation, algal)
9.1C	Harmful in the aquatic environment (algal)
9.2A	Very ecotoxic in the soil environment
9.3B	Ecotoxic to terrestrial vertebrates

### 2.2 Symbols:



### 2.3 Precautionary Statements:

Slightly irritant to skin  
Slightly irritant to eyes  
May produce an allergic reaction  
Contains a substance which is (possibly) carcinogenic  
Contains traces of a (possible) teratogenic substance

## 3. Composition/Information on Ingredients

### 3.1 Information on the ingredients used in the substance:

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
butan-2-one O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	No data.	0.1%<C<1%
butanone oxime	96-29-7	3.1C, 6.1D, 6.3B, 6.4A, 6.5B, 6.7B,6.9B, 9.1C, 9.2A, 9.3B	0.1%<C<1%

## 4. First Aid Measures

### 4.1 Skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

### 4.2 Eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

### 4.3 Inhalation:

Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention.

### 4.4 Ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

## 5. Fire-Fighting Measures

### 5.1 Extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

### 5.2 Special hazards due to combustion:

Heating increases the fire hazard. Upon combustion CO and CO<sub>2</sub> are formed.

### 5.3 Advice for fire-fighters:

No specific fire-fighting instructions required.

### 5.4 Hazchem code:

No data.

## 6. Accidental Release Measures

### 6.1 Personal precautions:

See heading 8.2.

### 6.2 Environmental precautions:

See heading 13.

### 6.3 Methods for cleaning up:

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

#### 6.4 Disposal:

Collect treated spillage. Contact local and regional authorities for further directions.

### 7. Handling and Storage

#### 7.1 Handling:

Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed.

#### 7.2 Storage:

Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements.

*Storage temperature:* 20 °C

*Max. storage time:* 1 year(s).

*Keep away from:* oxidizing agents

*Suitable packaging material:* synthetic material

### 8. Exposure Controls/Personal Protection

#### 8.1 Exposure limits:

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
2224-33-1	butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	No data.	No data.
96-29-7	butanone oxime	No data.	No data.

#### 8.2 Engineering Controls:

General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

#### 8.3 Exposure controls:

Control	Protective measure
Eye	Wear safety glasses with side shields or goggles when handling this material.
Respiratory	Respiratory protection not required in normal conditions.
Skin	Protective clothing.

### 9. Physical and Chemical Properties

#### 9.1 General substance properties:

Property	Details
Appearance	Paste
Odour	Characteristic odour
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	No data.
Volatile materials	Contains volatile organic compounds (VOC) of 0.135%
Freezing/melting point	No data.
Solubility	No data.
Specific gravity/density	No data.
Flash point	>100 °C
Danger of explosion	No data.
Auto-ignition temperature	No data.

<b>Upper and lower flammability limits</b>	No data.
<b>Corrosiveness</b>	No data.

## 10. Stability and Reactivity

- 10.1 Stability:**  
Stable under normal conditions.
- 10.2 Conditions to avoid:**  
Heat sources.
- 10.3 Incompatible materials to avoid:**  
Oxidizing agents.
- 10.4 Hazardous decomposition products:**  
Upon combustion CO and CO<sub>2</sub> are formed.

## 11. Toxicological Information

- 11.1 Summary of Toxicity**  
This product is considered harmful.

### 11.2 Acute toxicity:

Test	Data and symptoms of exposure
<b>Oral</b>	No effects known
<b>Dermal</b>	No evidence of dermal toxicity.
<b>Inhaled</b>	No effects known
<b>Eye</b>	Slight irritation
<b>Skin</b>	Slight irritation

### 11.3 Chronic toxicity:

Test	Data and symptoms of exposure
<b>Sensitisation</b>	No data.
<b>Mutagenicity</b>	No data.
<b>Carcinogenicity</b>	No data.
<b>Reproductive/developmental</b>	No data.
<b>Systemic/targeted organs</b>	No data.

## 12. Ecological Information

### 12.1 Ecological properties

Ecology	Ecological data
<b>Aquatic ecotoxicity</b>	No data.
<b>Soil ecotoxicity</b>	No data.
<b>Terrestrial vertebrate</b>	No data.
<b>Terrestrial invertebrate</b>	No data.
<b>Mobility</b>	Contains volatile organic compounds (VOC) of 0.135%.
<b>Degradability</b>	Biodegradability in water: no data available

## 13. Disposal Considerations

- 13.1 Disposal methods:**  
This product may be disposed of in a landfill provided this product will be kept separated from contact with explosives, oxidisers and ignition sources at all times. This product may be disposed of by burning in an

incineration facility. This product may be disposed of by purging. Further details can be provided by local and regional authorities.

### 13.2 Disposal restrictions:

The product must not be disposed of in a landfill or purged within range of legally located persons and places, where upon ignition, would expose them to more blast pressure and heat radiation than described in regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Burning must be managed to the performance requirements of regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Disposal of this product by landfill, burning or purging must not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Further details can be provided by local and regional authorities.

### 13.3 Special precautions for disposal:

No data.

## 14. Transport Information

### 14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
UN number	Not subject	Proper shipping name	Not subject
UN class	Not subject	Subsidiary risk	Not subject
UN packing group	Not subject	Hazchem code	Not subject

### 14.2 Transport provisions by land according to the Standard for the Transport of Dangerous Goods on Land (NZS 5433):

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

### 14.3 Transport provisions by sea according to the International Maritime Dangerous Goods (IMDG) code:

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

### 14.4 Transport provisions by air according to International Civil Aviation Organization (ICAO) Technical Instructions:

Special provision codes A145, A167, A802. Packages should be ≤30 kg.

## 15. Regulatory Information

### 15.1 HSNO approval number and Group Standard:

Not subject

### 15.2 Group Standard conditions and other regulations:

Condition	Requirement
MSDS	No data.
Labelling	No data.
Emergency plan	No data.
Approved handler	No data.
Tracking	No data.
Bundling and secondary containment	No data.
Signage	No data.
Test certificate	No data.
Flammable zone	No data.
Fire extinguisher	No data.

## 16. Other Information

**16.1 Date of preparation or revision:**

Revised 20th January 2014. Format updated.

**16.2 Abbreviations:**

Abbreviation	Description
CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC50	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD50	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet
STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)
UN number	United nations number
WES	Workplace exposure standard

**16.3 References**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material in combination with any other material or in any process, unless specified in the text.