



Code	Description	Size	Colour
19328	Toptec Galvanised Sealant	300 ml	Grey

Recommended use:		Solvent Based Adhesive
HSNO group standard:		HSR002662
UN number, shipping name and packaging group:		1133, ADHESIVES containing flammable liquid
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>POISON CENTRE NUMBER: 0800 764 766 (24 hours)</b>		

## 2. Hazards Identification

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

Classification	Hazard statement
<b>3.1B</b>	Highly flammable liquid and vapour
<b>6.3B</b>	Causes mild skin irritation
<b>6.4A</b>	Irritating to the eye
<b>6.9B</b> (inhalation)	Harmful to human target organs or systems

### 2.2 Symbols:

**DANGER**



### 2.3 Precautionary Statements:

Keep away from ignition sources such as heat, sparks and open flames.  
Do not handle until safety precautions have been read and understood.

### 3. Composition/Information on Ingredients

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

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
Acetone (2 Propane)	67-64-1	3.1B, 6.1E (oral), 6.3B, 6.4A	10-60%
Methyl Ethyl Ketone (2-Butanone)	78-93-3	3.1B, 6.1E (oral), 6.3B, 6.4A, 6.9B (inhalation)	10-60%
Ethyl Acetate (Acetic Acid, ethyl ester)	141-78-6	3.1B, 6.1E (oral, inhalation), 6.4A, 6.9B (inhalation)	10-60%
Non – hazardous materials	-	No data.	To 100%

### 4. First Aid Measures

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#### 4.1 Skin contact:

Remove contaminated clothing and wash skin with warm soapy water. Do not scrub. If swelling, redness, blistering or irritation occurs, get medical assistance.

#### 4.2 Eye contact:

Immediately hold open and flood with water for at least 15 minutes. Eyelids to be held open. Get medical advice.

#### 4.3 Inhalation:

Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

#### 4.4 Ingestion:

Rinse mouth with water. Get medical advice immediately. Do NOT give anything to drink. Do NOT induce vomiting because of risk of aspiration. Never give anything by the mouth to an unconscious patient. Watch for toxic effects.

#### 4.5 Advice for physicians:

Treat symptomatically. Effects may be delayed.

### 5. Fire-Fighting Measures

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#### 5.1 Extinguishing media:

Water fog, foam, dry chemical, carbon dioxide.

#### 5.2 Special hazards due to combustion:

Unknown due to the complex nature of this material. Fumes from complete or incomplete combustion of this material may include carbon dioxide, carbon monoxide, water vapour, oxides of nitrogen or a wide variety of innocuous or toxic fumes. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along ground to sources of ignition.

#### 5.3 Advice for fire-fighters:

Wear full protective equipment, including self contained breathing apparatus.

#### 5.4 Hazchem code:

3[Y]E

### 6. Accidental Release Measures

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#### 6.1 Personal precautions:

Wear protective equipment to prevent skin and eye contamination.

#### 6.2 Environmental precautions:

Contain spill to prevent run off into drains and waterways. Use absorbent (rags, soil, sand, or other inert material). Collect using spark-free shovels (ie. plastic) and seal in properly labelled containers or drums for disposal or recycling.

#### 6.3 Methods for cleaning up:

Extinguish all ignition sources. Avoid sparks, flames and heat. Avoid accidents and clean up immediately. Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (rag or paper towels). Collect and seal in properly labelled containers or drums for disposal or recycling.

#### 6.4 Disposal:

See Disposal section of this SDS for further details.

### 7. Handling and Storage

#### 7.1 Handling:

Avoid breathing of or contact with material. Use only in well ventilated areas. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Wear the appropriate personal protection equipment as specified in this SDS to prevent eye and skin contact. Wash thoroughly after handling.

#### 7.2 Storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Keep away from heat, sparks, open flames and any other sources of ignition. Static electricity must be avoided. Store away from any incompatible materials as defined in Section 10 of this SDS. Keep containers closed when not in use. Check regularly for leaks. For unit sizes of 20 litres or more, store according to HSNO.

### 8. Exposure Controls/Personal Protection

#### 8.1 Exposure limits:

Not available

#### 8.2 Engineering Controls:

Use in a well ventilated area only. Vapour is heavier than air. Prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected. Keep containers in a well ventilated area. Explosion proof general and local exhaust ventilation system is required.

#### 8.3 Exposure controls:

Control	Protective measure
Eye	Wear safety glasses, goggles or appropriate face shield.
Respiratory	Avoid fume inhalation. Wear organic vapour respirator, especially if working in a poorly ventilated area.
Skin	Avoid skin contact. Avoid repeated and prolonged skin contact. Wear overalls or similar protective clothing.

### 9. Physical and Chemical Properties

#### 9.1 General substance properties:

Property	Details
Appearance	Silver flowable paste
Odour	Ketone
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	56 – 80 °C
Volatile materials	No data.
Freezing/melting point	No data.

<b>Solubility</b>	Medium solubility
<b>Specific gravity/density</b>	1.0
<b>Flash point</b>	-17 °C
<b>Danger of explosion</b>	No data.
<b>Auto-ignition temperature</b>	460 °C
<b>Upper and lower flammability limits</b>	No data.
<b>Corrosiveness</b>	No data.

## 10. Stability and Reactivity

### 10.1 Stability:

This material is stable when stored and used as directed.

### 10.2 Conditions to avoid:

Avoid heat, sparks, flames and any other sources of ignition.

### 10.3 Incompatible materials to avoid:

Strong oxidising agents.

### 10.4 Hazardous decomposition products:

Thermal decomposition is highly dependant on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## 11. Toxicological Information

### 11.1 Summary of Toxicity

Information given in this Safety Data Sheet is based on the data on the components and the toxicology of similar products. No adverse health effects are expected if the product is handled in accordance with this SDS and the product label.

### 11.2 Acute toxicity:

Test	Data and symptoms of exposure
<b>Oral</b>	No data.
<b>Dermal</b>	No data.
<b>Inhaled</b>	No data.
<b>Eye</b>	Causes eye irritation.
<b>Skin</b>	Causes skin irritation.

### 11.3 Chronic toxicity:

Test	Data and symptoms of exposure
<b>Sensitisation</b>	Not expected to be a sensitiser.
<b>Mutagenicity</b>	Not expected to be mutagenic.
<b>Carcinogenicity</b>	Not expected to be carcinogenic.
<b>Reproductive/developmental</b>	No data.
<b>Systemic/targeted organs</b>	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

## 12. Ecological Information

### 12.1 Ecological properties

Ecology	Ecological data
<b>Aquatic ecotoxicity</b>	Not harmful to aquatic life.
<b>Soil ecotoxicity</b>	Not ecotoxic in the soil environment.
<b>Terrestrial vertebrate</b>	Not ecotoxic to terrestrial vertebrates.

<b>Terrestrial invertebrate</b>	Not ecotoxic to terrestrial invertebrates.
<b>Mobility</b>	Partially miscible with water. Similar density to water.
<b>Degradability</b>	No data.

### 13. Disposal Considerations

#### 13.1 Disposal methods:

Do not dispose of down drains or into local waterways. Recycle or recover whenever possible. Dispose of substance to a hazardous or special waste collection point or through a licensed contractor. Normally suitable for incineration by an approved agent.

#### 13.2 Disposal restrictions:

Disposal should be in accordance with Hazardous Substances (Disposal) Regulations 2001, and with any other applicable regional and national laws and regulations.

#### 13.3 Special precautions for disposal:

No data.

### 14. Transport Information

#### 14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
<b>UN number</b>	1133	<b>Proper shipping name</b>	ADHESIVES containing flammable liquid
<b>UN class</b>	3	<b>Subsidiary risk</b>	Not Applicable
<b>UN packing group</b>	II	<b>Hazchem code</b>	3[Y]E

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

No data.

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

No data.

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

No data.

### 15. Regulatory Information

#### 15.1 HSNO approval number and Group Standard:

HSR002662

Surface Coatings and Colourants (Flammable) Group Standard 2006

#### 15.2 Group Standard conditions and other regulations:

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

## 16. Other Information

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### 16.1 Date of preparation or revision:

Created 18<sup>th</sup> November 2013

### 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 a 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.