



Code	Description	Size	Colour
60060	Toptec Expanding Foam Click & Fix	750ml	Champagne
60061	Toptec Expanding Foam Screw on	750ml	Champagne

Recommended use:		Adhesive foam
HSNO group standard:		HSR002515
UN number, shipping name and packaging group:		1950, aerosols
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>2.1.2A</b>	Flammable aerosol
<b>6.1E (oral)</b>	Substances that are acutely toxic – May be harmful, Aspiration hazard
<b>6.1D (inhalation)</b>	Substances that are acutely toxic - Harmful
<b>6.3A</b>	Substances that are irritating to the skin
<b>6.4A</b>	Substances that are irritating to the eye
<b>6.5A</b>	Substances that are respiratory sensitizers
<b>6.5B</b>	Substances that are contact sensitizers
<b>6.7A</b>	Substances that are known or presumed human carcinogens
<b>6.8C</b>	Substances that produce toxic human reproductive or developmental effects on or via lactation
<b>6.9A</b>	Substances that are toxic to human target organs or systems
<b>9.1A</b>	Substances that are very ecotoxic in the aquatic environment

### 2.2 Symbols:

**DANGER**



### 2.3 Precautionary Statements:

Keep out of reach of children.

Read label before use.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces/ignition sources. No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Wash hands thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/eye protection/face protection.  
 Use personal protective equipment as required.  
 In case of inadequate ventilation wear respiratory protection.  
 Avoid contact during pregnancy/while nursing.  
 Do not eat, drink or smoke when using this product.  
 Avoid release to the environment.

### 3. Composition/Information on Ingredients

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

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
Alkanes, C14-17, chloro; (01-2119519269-33)	85535-85-9	6.8C, 9.1A	2.5-25%
Polymethylene polyphenyl isocyanate	9016-87-9	6.1B (inhalation), 6.3B, 6.4A, 6.9A (inhalation)	>25%
Propane	74-98-6	2.1.1A	1-10%
Isobutane	75-28-5	2.1.1A	1-10%
Dimethyl ether (01-2119472128-37)	115-10-6	2.1.1A, 6.4A	1-20%
1,3-butadiene	No data.	No data.	<0.1%
4,4-diphenylmethane diisocyanate	101-68-8	6.1B (inhalation), 6.1E (oral), 6.3A, 6.4A, 6.5A, 6.5B, 6.9A (inhalation).	Trace amounts may persist in product.

### 4. First Aid Measures

#### 4.1 Skin contact:

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

#### 4.2 Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Do not apply any neutralising agents. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### 4.3 Inhalation:

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. If medical advice is needed, have product container or label at hand.

#### 4.4 Ingestion:

IF exposed or concerned: Get medical advice/ attention. Immediately after ingestion give water to rinse mouth and drink. Call a POISON CENTER or doctor/physician if you feel unwell. If medical advice is needed, have product container or label at hand.

#### 4.5 Advice for physicians:

Treat symptomatically.

## 5. Fire-Fighting Measures

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### 5.1 Extinguishing media:

Use BC powder, carbon dioxide, polyvalent foam or quantities of water.

### 5.2 Special hazards due to combustion:

Combustion will result in the release of toxic and corrosive gases and vapours (nitrous vapours, hydrogen chloride, hydrogen cyanide, carbon monoxide, carbon dioxide). Polymerisation may occur on when exposed to heat.

### 5.3 Advice for fire-fighters:

If exposed to fire cool closed containers with water spray from behind cover. Risk of explosion persists after cooling. Dilute toxic gases and vapours with water spray. When exposed to heat or fire wear gloves, protective goggles, head and neck protection, protective clothing, compressed air or oxygen apparatus.

### 5.4 Hazchem code:

No data.

## 6. Accidental Release Measures

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### 6.1 Personal precautions:

Wear safety goggles, protective clothing and a respirator with filter type A when dealing with product spills and accidents. Increase ventilation around accident and avoid working in direct line of vapour pathway.

### 6.2 Environmental precautions:

Keep product adequately contained to avoid environmental contamination. Dam up solid spill. If accidental release occurs collect spillage.

### 6.3 Methods for cleaning up:

Allow product so solidify and remove mechanically. Collect all leftover product. Clean contaminated surfaces with acetone. Wash clothing and equipment after handling.

### 6.4 Disposal:

This product may be disposed of in a landfill. Contact local and regional authorities for further details.

## 7. Handling and Storage

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### 7.1 Handling:

Maintain a high level of hygiene when using this product, avoid contact. Use product around spark/explosionproof appliances and lighting systems. Do not use product around naked flames, heat and ignition sources.

### 7.2 Storage:

Store locked up in a fireproof storeroom. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Ensure ventilation at floor level. Store for a maximum of 1 year.

## 8. Exposure Controls/Personal Protection

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### 8.1 Exposure limits:

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
85535-85-9	Alkanes, C14-17, chloro; (01-2119519269-33)	No data	No data
9016-87-9	Polymethylene polyphenyl isocyanate	No data	No data
74-98-6	Propane	Simple asphyxiant – may	Simple asphyxiant – may

		present an explosion hazard (WES NZ)	present an explosion hazard (WES NZ)
75-28-5	Isobutane	No data	No data
115-10-6	Dimethyl ether (01-2119472128-37)	400 ppm, 766 mg/m3 (WES NZ)	500 ppm, 958 mg/m3 (WES NZ)
No data.	1,3-butadiene	No data	No data.
101-68-8	4,4-diphenylmethane diisocyanate	No data.	No data.

## 8.2 Engineering Controls:

Use product only in well ventilated areas. Avoid contact with heat, oxidising agents and ignition sources.

## 8.3 Exposure controls:

Control	Protective measure
<b>Eye</b>	Use safety goggles to prevent product entering eye.
<b>Respiratory</b>	Use respirator with filter type A to avoid product entering airways.
<b>Skin</b>	Use protective clothing to avoid product contacting skin. Always removed and replace contaminated clothing.

## 9. Physical and Chemical Properties

### 9.1 General substance properties:

Property	Details
<b>Appearance</b>	Aerosol with variable colour depending on composition
<b>Odour</b>	Characteristic odour
<b>pH</b>	No data.
<b>Vapour pressure</b>	No data.
<b>Viscosity</b>	No data.
<b>Boiling Point</b>	No data.
<b>Volatile materials</b>	VOC of 20%
<b>Freezing/melting point</b>	Appropriate details, (method?)
<b>Solubility</b>	Soluble in water
<b>Specific gravity/density</b>	Relative density of 0.95. Relative vapour density of >1.
<b>Flash point</b>	No data.
<b>Danger of explosion</b>	No data.
<b>Auto-ignition temperature</b>	No data.
<b>Upper and lower flammability limits</b>	Extremely flammable aerosol
<b>Corrosiveness</b>	No data.

## 10. Stability and Reactivity

### 10.1 Stability:

Stable under normal conditions.

### 10.2 Conditions to avoid:

Keep away from naked flames and heat. Avoid ignition sources.

### 10.3 Incompatible materials to avoid:

Avoid strong acids and bases.

### 10.4 Hazardous decomposition products:

Combustion will result in the release of toxic and corrosive gases and vapours (nitrous vapours, carbon monoxide, carbon dioxide).

## 11. Toxicological Information

### 11.1 Summary of Toxicity

This product is considered acutely harmful, a skin and eye irritant and a respiratory and skin sensitizer.

### 11.2 Acute toxicity:

Test	Data and symptoms of exposure
Oral	Final product is considered harmful (may be toxic)(6.1E (oral), LD50 of 2,000-5,000 mg/kg).
Dermal	No evidence of dermal toxicity.
Inhaled	Final product is considered harmful (6.1D (inhalation), LC50 of 10 mg/L-20 mg/L (vapour)). Constituents include polymethylene polyphenyl isocyanate (>25%, 6.1B (inhalation)).
Eye	Final product is considered irritating to the eye (6.4A). Constituents include polymethylene polyphenyl isocyanate (>25%, 6.4A), triethyl phosphate (1-25%, 6.4A), dimethyl ether (1-20%, 6.4A).
Skin	Final product is considered irritating to the skin (6.3A). Constituents include polymethylene polyphenyl isocyanate (>25%, 6.3B).

### 11.3 Chronic toxicity:

Test	Data and symptoms of exposure
Sensitisation	Final product is considered a respiratory and contact sensitiser (6.5A, 6.5B).
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	Final product is considered a known or presumed carcinogen (6.7A).
Reproductive/developmental	Final product is considered to produce reproductive/developmental toxicants via lactation. Constituents include alkanes, C14-17, chloro (2.5-25%, 6.8C).
Systemic/targeted organs	Final product is considered to target systemic/target organs (6.9A). Constituents include polymethylene polyphenyl isocyanate (>25%, 6.9A (inhalation)).

## 12. Ecological Information

### 12.1 Ecological properties

Ecology	Ecological data
Aquatic ecotoxicity	Final product is considered very ecotoxic in the aquatic environment (9.1A, LC50 of $\leq 1$ mg/L). Constituents include Alkanes, C14-17, chloro (2.5-25%, 9.1A).
Soil ecotoxicity	Final product is not considered ecotoxic in the soil environment.
Terrestrial vertebrate	Final product is considered harmful (may be toxic)(6.1E (oral), 6.1D (inhalation), LD50 of 2,000-5,000 mg/kg). Constituents include polymethylene polyphenyl isocyanate (>25%, 6.1B (inhalation)).
Terrestrial invertebrate	No data.
Mobility	VOC of 20%.
Degradability	Final product contains non-readily degradable components.

## 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	1950	Proper shipping name	Aerosol
UN class	2	Subsidiary risk	Respiratory/contact sensitiser, very ecotoxic
UN packing group	No data.	Hazchem code	No data.

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

In addition to the requirements specified in the Hazardous Substances (Compressed Gases) Regulations 2004, the aerosol dispenser must be provided with protection against inadvertent discharge. Where the product is being transported in quantities >3000 L, a motor vehicle must have one fire extinguisher present. In passenger vehicles each package containing this product must be ≤1 L. Special provisions codes are 190, 327, 344, 625.

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

Final product shipped as class 2.1. Special provisions codes are 190, 327, 344.

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

Final product shipped as class 2.1. Special provisions codes are A145, A167, A802. Maximum weight per package is 30 kg G.

## 15. Regulatory Information

### 15.1 HSNO approval number and Group Standard:

Group Standard: HSR002515

### 15.2 Group Standard conditions and other regulations:

Condition	Requirement
MSDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Labelling	Never remove label or decant into other incompatible or incorrectly marked containers.
Emergency plan	Required when storing ≥3000 L
Approved handler	Required.
Tracking	Not required.
Bundling and secondary containment	Required when storing ≥3000 L
Signage	Required when storing ≥3000 L
Test certificate	Required when storing ≥3000 L
Flammable zone	Required when storing ≥3000 L
Fire extinguisher	Required when storing ≥3000 L

## 16. Other Information

### 16.1 Date of preparation or revision:

September 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.