



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 1 of 11

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

##### 1.1. Product identifier

TIP TOP CEMENT SC 2000

###### Art.-No.

525 1557, 525 2025, 525 2027, 525 2029, 525 2050, 525 2053, 525 2064, 525 2130, 525 2153, 525 2160, 525 2161, 525 2163, 525 2165, 525 2173, 525 2191, 525 2193, 525 2194, 525 2196, 525 2247, 525 2249, 525 4003, 525 4006, 525 4010, 525 4024, 525 4027, 525 4034, 525 4043, 525 4041, 525 4058

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

###### Use of the substance/mixture

adhesive

Product for professional use

##### 1.3. Details of the supplier of the safety data sheet

Company name: REMA TIP TOP Australia Pty Ltd.  
Street: 3 - 7 Ironbark Close  
Place: Warabrook  
NSW 2304 / Australia  
Telephone: +61-2-4935-0200  
Internet: www.rema-tiptop.com.au  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de  
Responsible for the safety data sheet: sds@gbk-ingelheim.de

##### 1.4. Emergency telephone number:

+61-280735031, Infotrac/GBK GmbH-ID: 93591

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS CHEMICAL ACCORDING TO SAFE WORK AUSTRALIA AND WHS CRITERIA  
CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE ADG CODE  
POISON SCHEDULE: 6

###### Classification according to WHS

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Respiratory or skin sensitisation: Skin Sens. 1

Germ cell mutagenicity: Muta. 2

Carcinogenicity: Carc. 1B

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

###### Component(s) to be indicated on the label

Trichloroethylene &gt; 60 %

Colophonium &lt; 1 %

non hazardous ingredients 10 - &lt; 30 %

**Signal word:** Danger

## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 2 of 11

#### Pictograms:



exclamation mark



health hazard



environment

#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to approved disposal company or local collection.

#### 2.3. Other hazards

Not known.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Preparation with trichloroethylene



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 3 of 11

#### Hazardous components

CAS No	Chemical name	Quantity
EC No	Classification according to WHS criteria	
79-01-6	Trichloroethylene	> 60 %
201-167-4	Carc. 1B, Muta. 2, Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H350 H341 H315 H319 H317 H336 H412	
1314-13-2	Zinc oxide	< 5 %
215-222-5	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
8050-09-7	Colophonium	< 2.5 %
232-475-7	Skin Sens. 1; H317	
	non hazardous ingredients	10 - < 30 %

Full text of H and AUH phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.  
Take away from danger area and lay down affected person.

##### After inhalation

Move to fresh air in case of accidental inhalation of vapours.  
In the event of symptoms refer for medical treatment.

##### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

##### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

##### After ingestion

Induce vomiting only upon the advice of a physician.  
Attention. Beware, danger of aspiration.  
Summon a doctor immediately.  
Immediately give plenty of water, if possible charcoal slurry.

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

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
May cause cancer.  
May cause drowsiness or dizziness.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 4 of 11

Product does not burn, fire-extinguishing activities according to surrounding.

#### Unsuitable extinguishing media

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire may produce:  
carbon monoxide and carbon dioxide  
Chlorine and traces of phosgene.  
Hydrogen chloride gas.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.  
HAZCHEM: 2Z

#### Additional information

Keep away from heat and sources of ignition.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.  
Do not discharge into the subsoil/soil.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

#### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Keep container tightly closed.  
Vapours are heavier than air and spread along ground.  
Care for thoroughly room ventilation, if necessary suck off at workplace.  
Avoid contact with skin, eyes and clothing.

##### Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

##### Advice on storage compatibility

Incompatible with:  
Oxidizing agents  
Aluminium powder  
Alkaline metals and earth alkaline metals.  
Alkaline leaches

**Safety Data Sheet**

According to the Model WHS Regulations and the ADG code

**TIP TOP CEMENT SC 2000**

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 5 of 11

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

adhesive

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits (OEL) - Australia**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category
1314-13-2	Zinc oxide (dust)	-	10	TWA
1314-13-2	Zinc oxide (dust)	-	-	STEL
1314-13-2	Zinc oxide (fume)	-	5	TWA
1314-13-2	Zinc oxide (fume)	-	10	STEL
79-01-6	Trichloroethylene	10	54	TWA
79-01-6	Trichloroethylene	40	216	STEL
112926-00-8	Silica gel	-	10	TWA
112926-00-8	Silica gel	-	-	STEL
112926-00-8	Precipitated silica	-	10	TWA
112926-00-8	Precipitated silica	-	-	STEL

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
8050-09-7	Rosin-based solder flux fume	-	0.05		TWA (8 h)	WEL
		-	0.15		STEL (15 min)	WEL
79-01-6	Trichloroethylene	100	550		TWA (8 h)	WEL
		150	820		STEL (15 min)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.

Avoid contact with eyes and skin.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

**Eye/face protection**

Tightly fitting goggles.

Eye wash bottle with pure water.

**Hand protection**

Protective gloves resistant to chemicals made off viton, minimum coat thickness 0.7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove &lt;Vitoject 890&gt; made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 6 of 11

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Different
Odour:	Sweetish

#### Test method

pH-Value:	No information available.
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#### Changes in the physical state

Melting point:	No information available.
Initial boiling point and boiling range:	approx. 90 °C
Flash point:	Not applicable *)

#### Flammability

Solid:	No information available.
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#### Explosive properties

No information available.

Lower explosion limits:	7.9 vol. %
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Upper explosion limits:	No information available.
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Ignition temperature:	410 °C
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#### Auto-ignition temperature

Solid:	No information available.
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Decomposition temperature:	No information available.
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#### Oxidizing properties

No information available.

Vapour pressure: (at 20 °C)	77 hPa
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Density:	1.45 g/cm <sup>3</sup>
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Water solubility: (at 20 °C)	Immiscible
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#### Solubility in other solvents

No information available.

Partition coefficient:	No information available.
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Viscosity / dynamic:	3000 mPa·s
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Viscosity / kinematic:	No information available.
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Vapour density:	4.54
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Evaporation rate:	No information available.
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Solvent content:	< 90 %
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#### 9.2. Other information

\*) According to PTB instructions, trichloroethylene has no flashpoint; however, vapour and air mixtures are flammable under a stronger energy influx."

### SECTION 10: Stability and reactivity



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 7 of 11

#### **10.1. Reactivity**

No decomposition if stored and applied as directed.

#### **10.2. Chemical stability**

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

Reactions with alkali metals.  
Reactions with earth alkali metals.  
Reactions with oxidizing agents.

#### **10.4. Conditions to avoid**

Above 120°C, a thermic decomposition may take place.

#### **10.5. Incompatible materials**

Alkaline metals and alkaline earth metals., Bases., oxidizing agents, Aluminium powder

#### **10.6. Hazardous decomposition products**

Chlorine and traces of phosgene.  
Hydrogen chloride gas  
Carbon monoxide and carbon dioxide

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
Trichloroethylene  
LD50/oral/rat: 5400 mg/kg  
LD50/dermal/rabbit: > 2000 mg/kg  
LC50/inhalation/rat: 12500 ppm/4h

##### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.

##### **Sensitising effects**

May cause an allergic skin reaction. (Trichloroethylene; Colophonium )

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing genetic defects. (Trichloroethylene)  
May cause cancer. (Trichloroethylene)  
Reproductive toxicity: Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

May cause drowsiness or dizziness. (Trichloroethylene)

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

##### **Practical experience**

##### **Other observations**

Components of the product may be absorbed into the body through the skin. (skin absorption).  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  
Effects of breathing high concentrations of vapour may include:  
Headache, dizziness, weakness, unconsciousness.  
Hazard of lung oedema.  
Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 8 of 11

membranes.

## SECTION 12: Ecological information

### 12.1. Toxicity

Trichloroethylene  
LC50/Pimephales promelas/ 96 h = 42.4 mg/l  
EC50/Daphnia magna/48 h = 20.8 mg/l  
EC50/Algae/96 h = 36.5 mg/l  
Zinc oxide  
EC50/Selenastrum capricornutum/72 h = 0.17 mg/l

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Trichloroethylene  
Biodegradable (OECD): 2.4% (14 d) [OECD 301C]  
Not readily biodegradable.

### 12.3. Bioaccumulative potential

Trichloroethylene  
Low bio-accumulation can be estimated because of low log Po/w. (Log Pow: 2.53)

### 12.4. Mobility in soil

Trichloroethylene  
High mobility in soil.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

Severe hazard to waters

### Further information

Do not flush into surface water or sanitary sewer system.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Where possible recycling is preferred to disposal.  
Can be incinerated, when in compliance with local regulations.

#### Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information



### Land transport (ADG)

<b>14.1. UN number:</b>	UN 1710
<b>14.2. UN proper shipping name:</b>	TRICHLOROETHYLENE, Solution
<b>14.3. Transport hazard class(es):</b>	6.1





## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 9 of 11

**14.4. Packing group:** III  
Hazard label: 6.1  
Limited quantity: 5 L

**Other applicable information (land transport)**

HAZCHEM: 2Z

**Marine transport (IMDG)**

**14.1. UN number:** UN 1710  
**14.2. UN proper shipping name:** TRICHLOROETHYLENE SOLUTION  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
Hazard label: 6.1  
Special Provisions: -  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-A

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1710  
**14.2. UN proper shipping name:** TRICHLOROETHYLENE SOLUTION  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** III  
Hazard label: 6.1  
Limited quantity Passenger: 2 L  
Passenger LQ: Y642  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 655  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 663  
IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Zinc oxide

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practices.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

The transport takes place only in approved and appropriate packaging.

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Trichloroethylene

Restrictions on use (REACH, annex XVII):

Entry 28: Trichloroethylene

2004/42/EC (VOC): &lt; 90 %



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 10 of 11

#### National regulatory information

Water contaminating class (D): 3 - highly water contaminating

#### Additional information

Poison Schedule: 6

Labelling requirements for SUSMP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with the Safe Work Australia "Code of Practice" for workplace substances.

All components of this mixture are listed on or exempted from AICS.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Changes in chapter: 1.

#### Abbreviations and acronyms

ADG = Australian Code for the Transport of Dangerous Goods by Road & Rail

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

HAZCHEM = HAZardous CHEMicals

WHS = Work Health and Safety

NOHSC = National Occupational Health and Safety Commission (Australia)

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant H and AUH phrases (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP CEMENT SC 2000

Revision date: 25.07.2017

Product code: 00156-0002-AUS

Page 11 of 11

level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*