



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT PR 100 SF Komp. A

Revision date: 13.12.2018

Product code: 00359-1133AUS

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

##### 1.1. Product identifier

TIP TOP REMACOAT PR 100 SF Komp. A

**Art.-No.**

590 2844, 590 2861

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

**Use of the substance/mixture**

Coating component

##### 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

**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: 5

**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  
Hazardous to the aquatic environment: Aquatic Chronic 2  
Hazard Statements:  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

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

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700) 60 - < 70 %  
Reaction product: bisphenol-F-epichlorine hydrine resins with average molecular weight  $\leq$  700 10 - < 20 %  
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 10 - < 20 %  
1,6-Bis(2,3-epoxypropoxy)hexane < 1 %

**Signal word:** Warning**Pictograms:**

exclamation mark



environment



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#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash Hands thoroughly after handling.
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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P501	Dispose of contents/container to approved disposal company or local collection.

#### 2.3. Other hazards

Contains epoxy constituents. See information supplied by the manufacturer.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Epoxy resin based on bisphenol A and bisphenol F

##### Hazardous components

CAS No	Chemical name	Quantity
EC No	Classification according to WHS criteria	
25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	60 - < 70 %
500-033-5	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
28064-14-4	Reaction product: bisphenol-F-epichlorine hydrine resins with average molecular weight <= 700	10 - < 20 %
500-108-2	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	10 - < 20 %
271-846-8	Skin Irrit. 2, Skin Sens. 1; H315 H317	
16096-31-4	1,6-Bis(2,3-epoxypropoxy)hexane	< 1 %
240-260-4	Skin Irrit. 2, Eye Irrit. 2A, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412	

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.

##### After inhalation

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

##### After contact with skin

Wash off immediately with soap and plenty of water.



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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**

Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

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

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

#### **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.

##### **Unsuitable extinguishing media**

Full water jet.

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

Fire may produce:  
carbon monoxide and carbon dioxide  
Phenoles

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.  
HAZCHEM: •3Z

#### **Additional information**

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.

#### **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.  
Clean contaminated surface thoroughly.

#### **6.4. Reference to other sections**

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



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#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

- Keep container tightly closed.
- Contains epoxy constituents. See information supplied by the manufacturer.
- Use only in thoroughly ventilated areas.
- Avoid contact with skin, eyes and clothing.

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

- No special protective measures against fire required.

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

###### Requirements for storage rooms and vessels

- Keep container tightly closed in a dry, cool and well-ventilated place.
- Protect against direct sun radiation.

###### Hints on joint storage

- Incompatible with:
  - Oxidizing agents
  - Amines
  - Acids and bases.

###### Further information on storage conditions

- Keep away from food, drink and animal feeding stuffs.

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

- Coating component

#### 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
123-86-4	n-Butyl acetate	150	713	TWA
123-86-4	n-Butyl acetate	200	950	STEL

##### 8.2. Exposure controls

###### Appropriate engineering controls

- Ensure adequate ventilation, especially in confined areas.

###### Protective and hygiene measures

- Do not inhale vapours.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Avoid contact with skin, eyes and clothing.
- Remove and wash contaminated clothes before re-use.

###### Eye/face protection

- Tightly fitting goggles.
- Eye wash bottle with pure water.

###### Hand protection

- Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
- This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.



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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.

#### Respiratory protection

No personal respiratory protective equipment normally required.

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:	Viscous liquid
Colour:	Green
Odour:	Characteristic

#### Test method

pH-Value: Not determined.

#### Changes in the physical state

Melting point:	Not determined.
Initial boiling point and boiling range:	> 200 °C
Sublimation point:	Not applicable.
Softening point:	Not determined.
Flash point:	> 100 °C

#### Flammability

Solid:	Not applicable.
Gas:	Not applicable.

#### Explosive properties

The product is not explosive.

Lower explosion limits:	Not determined.
Upper explosion limits:	Not determined.
Ignition temperature:	Not determined.

#### Auto-ignition temperature

Solid:	Not applicable.
Gas:	Not applicable.

Decomposition temperature: Not determined.

#### Oxidizing properties

Not oxidising.

Vapour pressure: Not determined.

Density (at 20 °C): 1.10 - 1.14 g/cm<sup>3</sup>

Bulk density: Not applicable.

Water solubility:  
(at 20 °C) Immiscible

#### Solubility in other solvents

Not determined.

Partition coefficient: Not determined.

Viscosity / dynamic:  
(at 25 °C) 800 - 1000 mPa·s

Viscosity / kinematic: Not determined.



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Flow time:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solvent separation test:	Not determined.
Solvent content:	0 %

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 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 acids, alkalies and oxidizing agents  
Reactions with amines.

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.  
Protect against direct sun radiation.  
Polymerisation occurs when exposed to heat.

#### 10.5. Incompatible materials

Strong oxidizing agents  
Acids and bases.  
Amines

#### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide  
phenol

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicological data available.

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

Causes skin irritation.  
Causes serious eye irritation.

##### **Sensitising effects**

May cause an allergic skin reaction. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700); Reaction product: bisphenol-F-epichlorine hydrine resins with average molecular weight  $\leq$  700 ; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; 1,6-Bis(2,3-epoxypropoxy)hexane)

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

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

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

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

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

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



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#### Aspiration hazard

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecological data are not available.  
Toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

Not readily biodegradable.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

#### 12.6. Other adverse effects

Hazardous water pollutant.

#### Further information

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

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

##### Contaminated packaging

Contaminated packagings are to be treated like the product itself.  
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 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Special Provisions:	274 331 335 375 AU01
Limited quantity:	5 L

#### Other applicable information (land transport)

HAZCHEM: •3Z



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#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Special Provisions:	274, 335, 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

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

<b>14.1. UN number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Special Provisions:	A97 A158 A197
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Epoxy resin

#### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

#### 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

2004/42/EC (VOC): 0 %

##### National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

##### Additional information

Poison Schedule: 5

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.





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#### 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, 2, 3, 8, 9, 12, 14, 15.

#### 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.

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 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.

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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.)*