



Safety Data Sheet

According to the Model WHS Regulations and the ADG code

TIP TOP REMACOAT PR 100 SF Komp. B

Revision date: 13.12.2018

Product code: 00359-1134AUS

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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. B

Art.-No.

590 2845, 590 2862

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:
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1
Reproductive toxicity: Repr. 2
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Harmful if swallowed.
Harmful if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Component(s) to be indicated on the label

Polyaminoamide 30 - < 50 %
benzyl alcohol 10 - < 25 %
p-tert-Butylphenol 10 - < 15 %
Xylylenediamine 10 - < 15 %
2,4,6-tris(dimethylaminomethyl)phenol < 10 %
3,6-Diazaoctanethylenediamin (triethylenetetramine) < 5 %
N,N-dimethyl-1,3-diaminopropane < 5 %
Trimethylhexane-1,6-diamine < 5 %

Signal word: Danger

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Pictograms:



corrosion



exclamation mark



health hazard

Hazard statements

| | |
|-------|--|
| H302 | Harmful if swallowed. |
| H332 | Harmful if inhaled. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H412 | Harmful 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. |
| P260 | Do not breathe vapour. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| 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. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| 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

Mixture of organic amines



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Hazardous components

| CAS No | Chemical name | Quantity |
|------------|---|-------------|
| EC No | Classification according to WHS criteria | |
| 68410-23-1 | Polyaminoamide | 30 - < 50 % |
| | Eye Dam. 1; H318 | |
| 100-51-6 | benzyl alcohol | 10 - < 25 % |
| 202-859-9 | Acute Tox. 4, Acute Tox. 4; H332 H302 | |
| 98-54-4 | p-tert-Butylphenol | 10 - < 15 % |
| 202-679-0 | Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 2; H361f H315 H318 H335 H411 | |
| 1477-55-0 | Xylylenediamine | 10 - < 15 % |
| 216-032-5 | Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H331 H302 H314 H317 H412 AUH071 | |
| 90-72-2 | 2,4,6-tris(dimethylaminomethyl)phenol | < 10 % |
| 202-013-9 | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A; H302 H315 H319 | |
| 112-24-3 | 3,6-Diazaoctanethylenediamin (triethylenetetramine) | < 5 % |
| 203-950-6 | Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H314 H317 H412 | |
| 109-55-7 | N,N-dimethyl-1,3-diaminopropane | < 5 % |
| 203-680-9 | Flam. Liq. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H302 H314 H317 | |
| 25620-58-0 | Trimethylhexane-1,6-diamine | < 5 % |
| 247-134-8 | Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317 | |

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.
Take away from danger area and lay down affected person.

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

In case of contact with skin wash off immediately with soap and water.
Consult a physician.

After contact with eyes

Remove contact lens.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult (eye) doctor immediately.

After ingestion

Do not induce vomiting.
Drink plenty of water.
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

Harmful if swallowed or if inhaled.
May cause an allergic skin reaction.
Causes severe skin burns and eye damage.



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Suspected of damaging fertility.

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 (CO₂), dry chemical, water-spray.
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 (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.
HAZCHEM: 2X

Additional information

Cool containers at risk with water spray jet.
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.
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.
Avoid contact with skin, eyes and 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.

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.
Avoid contact with the skin and the eyes.
Do not breathe vapours.
Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.
No special protective measures against fire required.



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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.

Hints on joint storage

Incompatible with:
Acids and bases.
Oxidizing agents

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 ³ | Category |
|-----------|------------------|-----|---------------------|----------|
| 1477-55-0 | m-Xylylendiamine | - | 0.1 Peak limitation | TWA |
| 1477-55-0 | m-Xylylendiamine | - | - | STEL |

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.
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.
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.
Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

Skin protection

Long sleeved clothing.

Respiratory protection

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



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Yellowish
Odour: Amine like

Test method

pH-Value: approx. 8.5 - 11

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: approx. 105 °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: < 5 hPa
(at 50 °C)

Density (at 20 °C): 1.02 - 1.04 g/cm³
Bulk density: Not applicable.

Water solubility: Immiscible
(at 20 °C)

Solubility in other solvents

Not determined.

Partition coefficient: Not determined.

Viscosity / dynamic: 800 - 1200 mPa·s
(at 20 °C)

Viscosity / kinematic: Not determined.

Flow time: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solvent separation test: 0 %

Solvent content: 0 %



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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

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Acids and bases.
oxidizing agents

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.
Harmful if inhaled.

Irritation and corrosivity

Causes severe skin burns and eye damage.

Sensitising effects

May cause an allergic skin reaction. (Xylylenediamine; 3,6-Diazaoctanethylenediamin (triethylenetetramine); N,N-dimethyl-1,3-diaminopropane; Trimethylhexane-1,6-diamine)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (p-tert-Butylphenol)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: 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.

Aspiration hazard

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

Practical experience

Other observations

Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion of aqueous solution causes gastrointestinal burns.

SECTION 12: Ecological information

12.1. Toxicity

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



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12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

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

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 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.

SECTION 14: Transport information



Land transport (ADG)

| | |
|---|--|
| <u>14.1. UN number:</u> | UN 2735 |
| <u>14.2. UN proper shipping name:</u> | AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, N,N-dimethyl-1,3-diaminopropane) |
| <u>14.3. Transport hazard class(es):</u> | 8 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 8 |
| Special Provisions: | 274 |
| Limited quantity: | 1 L |

Other applicable information (land transport)

HAZCHEM: 2X

Marine transport (IMDG)

| | |
|---|--|
| <u>14.1. UN number:</u> | UN 2735 |
| <u>14.2. UN proper shipping name:</u> | AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, N,N-dimethyl-1,3-diaminopropane) |
| <u>14.3. Transport hazard class(es):</u> | 8 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 8 |
| Special Provisions: | 274 |



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Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Xylylenediamine, N,N-dimethyl-1,3-diaminopropane)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8
Special Provisions: A3 A803
Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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.

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.



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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)

| | |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361f | Suspected of damaging fertility. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| AUH071 | Corrosive to the respiratory tract. |

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.

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