



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 1 of 10

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

##### 1.1. Product identifier

TIP TOP REMACOAT D-40 POLY

##### Art.-No.

590 2873, 590 2907, 590 2908, 590 2909

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

##### Use of the substance/mixture

Coating system for protection against wear and corrosion

##### 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: none allocated

##### Classification according to WHS

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Dam. 1  
Specific target organ toxicity - repeated exposure: STOT RE 2  
Hazardous to the aquatic environment: Aquatic Chronic 2  
Hazard Statements:  
Causes skin irritation.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure.  
Toxic to aquatic life with long lasting effects.

##### 2.2. Label elements

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

Glyceryl poly(oxypropylene) triamine 30 - < 50 %  
Diethylmethylbenzenediamine 10 - < 25 %  
Barium sulphate 10 - < 30 %  
N,N'-Dialkylaminodiphenylmethane < 10 %  
Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)- < 5 %  
non hazardous ingredients < 10 %

Signal word: Danger

##### Pictograms:





## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 2 of 10

corrosion health hazard environment

#### Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P260	Do not breathe 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.
P332+P313	If skin irritation 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.
P310	Immediately call a POISON CENTER/doctor.
P391	Collect spillage.
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 containing following substances with additives

##### Hazardous components

CAS No	Chemical name	Quantity
EC No	Classification according to WHS criteria	
64852-22-8	Glyceryl poly(oxypropylene) triamine Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412	30 - < 50 %
68479-98-1	Diethylmethylbenzenediamine Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2A, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H312 H302 H319 H373 H400 H410	10 - < 25 %
7727-43-7	Barium sulphate	10 - < 30 %
231-784-4		
5285-60-9	N,N'-Dialkylaminodiphenylmethane	< 10 %
226-122-6	Acute Tox. 4; H302	
9046-10-0	Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)-	< 5 %
618-561-0	Skin Corr. 1C, Eye Dam. 1, Aquatic Chronic 2; H314 H318 H411	
	non hazardous ingredients	< 10 %

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.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 3 of 10

Consult a physician.  
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 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.  
Summon a doctor immediately.

#### 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 damage.  
May cause damage to organs through prolonged or repeated exposure.

#### 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 (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

#### 5.3. Advice for firefighters

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

#### Additional information

Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.  
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.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 4 of 10

#### **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.

#### **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.

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

Coating system for protection against wear and corrosion

### 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
7727-43-7	Barium sulphate	-	10	TWA
7727-43-7	Barium sulphate	-	-	STEL

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	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.  
Remove and wash contaminated clothes before re-use.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 5 of 10

#### 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).

### SECTION 9: Physical and chemical properties

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

Physical state: Liquid - viscous  
Colour: Various  
Odour: Amine like

#### Test method

pH-Value: Not determined.

#### Changes in the physical state

Melting point: Not determined.  
Initial boiling point and boiling range: Not determined.  
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 25 °C): 1.17 - 1.21 g/cm<sup>3</sup>

Bulk density: Not applicable.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 6 of 10

Water solubility:	Immiscible
<b>Solubility in other solvents</b>	
Not determined.	
Partition coefficient:	Not determined.
Viscosity / dynamic: (at 25 °C)	1500 - 2000 mPa·s
Viscosity / kinematic:	Not determined.
Flow time: (at 25 °C)	> 40 s 6 DIN/ISO 2431
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solvent separation test:	0 %
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.

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

To avoid thermal decomposition, do not overheat.

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

Acids.

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

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

### **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.

ATEmix/oral: &gt; 2000 mg/kg

ATEmix/dermal: &gt; 2000 mg/kg

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

Causes skin irritation.

Causes serious eye damage.

##### **Sensitising effects**

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

##### **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.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 7 of 10

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Diethylmethylbenzenediamine)

**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.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

### SECTION 12: Ecological information

**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

**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.

Waste disposal according to 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.

Waste disposal according to local regulations.

### SECTION 14: Transport information

**Land transport (ADG)****14.1. UN number:**

UN 3082

**14.2. UN proper shipping name:**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethylmethylbenzenediamine)**14.3. Transport hazard class(es):**

9



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 8 of 10

**14.4. Packing group:** III  
Hazard label: 9  
Special Provisions: 274 331 335 375 AU01  
Limited quantity: 5 L

**Other applicable information (land transport)**

HAZCHEM: •3Z

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethylmethylbenzenediamine)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** 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)**

**14.1. UN number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Diethylmethylbenzenediamine)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** 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: Diethylmethylbenzenediamine

**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**





## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 9 of 10

#### Additional information

Poison Schedule: none allocated

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, 11, 13, 14.

#### 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)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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 level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.



## Safety Data Sheet

According to the Model WHS Regulations and the ADG code

### TIP TOP REMACOAT D-40 POLY

Revision date: 11.12.2018

Product code: 00359-1097AUS

Page 10 of 10

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.)*