# Safety Data Sheet

according to the WHS Regulations Issue date:16/07/2021 Supersedes:11/03/2021 Version: 2.5

SDS No: 00156-0131



### **SECTION 1: Product identifier**

#### 1.1. GHS Product identifier

Product form : Mixture

: TIP TOP PRIMER PR 500-1 Product name

Product code 525 2303, 525 2327, 525 2334, 525 2470, 525 2477

### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Primer Coat

### 1.4. Details of manufacturer or importer

Manufacturer **Importer** 

REMATIP TOP AG REMA TIP TOP Australia Pty Ltd.

65 Gruber Strasse 3/20 Worth Street Poing 85586 Chullora NSW 2190

Germany Australia

T +49 (0) 8121 / 707 - 100 T+61 287558400 info@tiptop.de www.rema-tiptop.com.au

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

### 1.5. Emergency phone number

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

### **SECTION 2: Hazard identification**

# 2.1. Classification of the hazardous chemical

# Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2 H225 Acute toxicity (inhalation:dust,mist) Category 4 H332 H315 Skin corrosion/irritation, Category 2 H319 Serious eye damage/eye irritation, Category 2A Skin sensitisation, Category 1 H317 Germ cell mutagenicity, Category 2 H341 Carcinogenicity, Category 2 H351 Specific target organ toxicity - Single exposure, Category 3, Narcosis H336 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335 tract irritation

Specific target organ toxicity - Repeated exposure, Category 2 H373 Hazardous to the aquatic environment - Acute Hazard, Category 3 H402 Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412

### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)







Flame

Exclamation Health hazard

Signal word (GHS AU)

: Danger

Contains Formaldehyde (< 0,1 %); Reaction mass of ethylbenzene and xylene (10 - 30 %); Phenol

resin (< 5 %); Phenol (< 3 %); 2-Pentanone, 4-methyl- (60 - 80 %)

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Hazard statements (GHS AU) : H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS AU) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 - Ground and bond container and receiving equipment.

P260 - Do not breathe vapours.

P264 - Wash hands, forearms and face 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.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

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. P312 - Call a POISON CENTER, a doctor if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical attention.

P337+P313 - If eye irritation persists: Get medical attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Vapours may form explosive mixture with air.

# **SECTION 3: Composition and information on ingredients**

Comments : Preparation with polymers in xylene and 4-methylpentan-2-one.

Name	CAS-No.	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
2-Pentanone, 4-methyl-	108-10-1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335

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Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)	
Reaction mass of ethylbenzene and xylene	-	10 - 30	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	
Phenol resin	9003-35-4	< 5	Skin Sens. 1, H317	
Phenol	108-95-2	< 3	Muta. 2, H341 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Skin Corr. 1B, H314	
Zinc oxide	1314-13-2	< 2,5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Toluene	108-88-3	< 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
Formaldehyde	50-00-0	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Muta. 2, H341 Carc. 1B, H350	
Specific concentration limits:				
Name	Product identifier	Specific cond	entration limits (%)	
Reaction mass of ethylbenzene and xylene	-	(10 ≤ C ≤ 100) STOT RE 2, H373		
Phenol	CAS-No.: 108-95-2	(1 ≤ C < 3) Skin Irrit. 2, H315 (1 ≤ C < 3) Eye Irrit. 2, H319 (3 ≤ C ≤ 100) Skin Corr. 1B, H314		
Formaldehyde	CAS-No.: 50-00-0	$(0.2 \le C \le 100)$ Skin Sens. 1, H317 $(5 \le C < 100)$ STOT SE 3, H335 $(5 \le C < 25)$ Eye Irrit. 2, H319 $(5 \le C < 25)$ Skin Irrit. 2, H315 $(25 \le C \le 100)$ Skin Corr. 1B, H314		

# SECTION 4: First aid measures

# 4.1. Description of necessary first-aid measures

First-aid measures general

: Take off immediately all contaminated clothing. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Move the affected person away from the contaminated area.

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First-aid measures after inhalation : Move to fresh air in case of accidental inhalation of vapours or decomposition products. Call

a physician immediately.

First-aid measures after skin contact : Wash off immediately with soap and plenty of water. Possible risk of resorption through

skin. If you feel unwell, seek medical advice.

First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Consult an eye

specialist

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an

unconscious person. Call a physician immediately. Do not induce vomiting without medical

advice

### 4.2. Symptoms caused by exposure

Symptoms/effects after inhalation : Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms effects are 1 skill contact . Causes skill illiation, way cause all allergic skill re

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Aspiration hazard.

Chronic symptoms : Suspected of causing genetic defects. May cause damage to organs through prolonged or

repeated exposure.

### 4.3. Medical attention and special treatment

Treatment : Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : high volume water jet.

# 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : Product is not explosive. Explosive vapour/air mixtures may be formed.

General measures : In case of vapour formation use adequate respirator. Explosion free apparatus have to be

used. Ensure adequate air ventilation. Evacuate personnel to a safe area. Wear personal

protective equipment.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Hazchem Code : \* 3Y

Other information : Vapours are heavier than air and may spread along floors. The vapour/air mixture is

explosive, even in empty, uncleaned receptacles. 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

General measures : In case of vapour formation use adequate respirator. Explosion free apparatus have to be used. Ensure adequate air ventilation. Evacuate personnel to a safe area. Wear personal

protective equipment.

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing

vapours. Avoid contact with skin and eyes.

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### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

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

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

For containment : Dike and contain spill.

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents). Shovel or sweep up and put in a closed container for disposal. Clean

contaminated surface thoroughly.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Ensure good ventilation of the work station. Vapours are heavier than air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use explosion-proof equipment. Wear

personal protective equipment. Do not wear contact lenses. Do not smoke.

Hygiene measures : Do not inhale vapour. Always wash hands after handling the product. Do not eat, drink or

smoke when using this product. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out

of the workplace.

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

Technical measures : Pay attention to explosion protection guidelines. Ground/bond container and receiving

equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Incompatible materials : Strong acids. Strong oxidizing agent. Strong bases. Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

### **SECTION 8: Exposure controls and personal protection**

### 8.1. Control parameters - exposure standards

Zinc oxide (1314-13-2)				
Australia - Occupational Exposure Limits				
Local name	Zinc oxide			
OES TWA	10 mg/m³ dust 5 mg/m³ fume			
OES STEL	10 mg/m³ fume			
Remark (AU)	Dust: (a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.			
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)			
Formaldehyde (50-00-0)				
Australia - Occupational Exposure Limits				
Local name	Formaldehyde			
OES TWA	1.2 mg/m³			
	1 ppm			

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Formaldehyde (50-00-0)	
OES STEL	2.5 mg/m³
	2 ppm
Remark (AU)	Carcinogenicity Category 2 – Suspected human carcinogen. The classification of a chemical into this category is on the basis of evidence from human and animal studies, where the evidence is not sufficiently convincing to place the chemical into Category 1 or from limited evidence of carcinogenicity in human or animal studies; Sen - Respiratory and/or Skin Sensitiser.
Chemical category	Probable carcinogen
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)
Phenol (108-95-2)	
Australia - Occupational Exposure Limits	
Local name	Phenol
OES TWA	4 mg/m³
	1 ppm
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)
2-Pentanone, 4-methyl- (108-10-1)	
Australia - Occupational Exposure Limits	
Local name	Methyl isobutyl ketone (MIBK; 4-Methyl-2-pentanone; Hexone)
OES TWA	205 mg/m³
	50 ppm
OES STEL	307 mg/m³
	75 ppm
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)
Toluene (108-88-3)	
Australia - Occupational Exposure Limits	
Local name	Toluene
OES TWA	191 mg/m³
	50 ppm
OES STEL	574 mg/m³
	150 ppm
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.
Chemical category	Skin notation
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)

# 8.2. Biological Monitoring

Monitoring methods : A specific exposure sampling method is not available.

# 8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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# 8.4. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : 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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Butyl rubber	5 (> 240 minutes)	≥0,7		EN ISO 374

Eye protection : Eyewash bottle with clean water (EN 15154)

Туре	Field of application	Characteristics	Standard
Protective goggles (EN 166)	Liquid splashes may occur		EN 166

Skin and body protection :

Туре	Standard
Chemical resistant apron	EN 467

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Respiratory protective device with a gas filter	Type A - High-boiling (>65 °C) organic compounds	In case of inadequate ventilation wear	EN 14387

Environmental exposure controls

Avoid release to the environment.

Other information

Do not inhale vapour. Wash hands before breaks and at the end of workday. Wash hands immediately after handling the product. Do not eat, drink or smoke during use. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

# **SECTION 9: Physical and chemical properties**

Physical state : Liquid

Appearance : No data available

Colour : Grey
Odour : Sweet

Odour threshold : No data available pH : No data available pH solution : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point / Freezing point : No data available Boiling point : No data available

Flash point : 17 °C

Auto-ignition temperature : No data available Flammability : No data available Vapour pressure : No data available Relative density : No data available

Density : Density: 0.94 – 0.98 g/cm³ @ 20 °C

Solubility : Miscible.

 Log Pow
 : No data available

 Viscosity, kinematic
 : > 20.5 mm²/s @ 40 °C

 Viscosity, dynamic
 : 120 – 250 mPa·s @ 25 °C

Explosive properties : Product is not explosive. May form flammable/explosive vapour-air mixture.

Oxidising properties : Non oxidizing
Explosive limits : No data available
Minimum ignition energy : No data available

VOC content : < 75 % VOC Directive 2004/42/EC - Decorative paints and varnishes

Fat solubility : No data available Flow time : 24-28 s 4 DIN 53211

Solvent content : 70-74 %

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### **SECTION 10: Stability and reactivity**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Reactions with acids, alkalies and oxidizing agents.

Conditions to avoid : To avoid thermal decomposition, do not overheat. Vapour/air-mixtures are explosive at

intense warming. Heating can release vapours which can be ignited.

Incompatible materials : Strong oxidizing agent. Strong acids. Strong bases.

Hazardous decomposition products : No hazardous decomposition products known. Thermal decomposition generates : Carbon

oxides (CO, CO2).

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

,	
TIP TOP PRIMER PR 500-1	
ATE AU (dust,mist)	1.184 mg/l/4h
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5.7 mg/l/4h
Formaldehyde (50-00-0)	
ATE AU (oral)	100 mg/kg bodyweight
ATE AU (dermal)	300 mg/kg bodyweight
ATE AU (dust,mist)	0.05 mg/l/4h
Reaction mass of ethylbenzene and xylene	
ATE AU (dermal)	1100 mg/kg bodyweight
ATE AU (gases)	4500 ppmv/4h
ATE AU (vapours)	11 mg/l/4h
ATE AU (dust,mist)	1.5 mg/l/4h
Phenol (108-95-2)	
ATE AU (oral)	100 mg/kg bodyweight
ATE AU (dermal)	300 mg/kg bodyweight
ATE AU (gases)	700 ppmv/4h
ATE AU (vapours)	3 mg/l/4h
ATE AU (dust,mist)	0.5 mg/l/4h
2-Pentanone, 4-methyl- (108-10-1)	
ATE AU (gases)	4500 ppmv/4h
ATE AU (vapours)	11 mg/l/4h
ATE AU (dust,mist)	1.5 mg/l/4h
Ckin carragion/irritation	Causas akin irritation

Skin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Causes serious eye irritation.Respiratory or skin sensitisation: May cause an allergic skin reaction.Germ cell mutagenicity: Suspected of causing genetic defects.

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Carcinogenicity

symptoms

: Suspected of causing cancer.

Reproductive toxicity Not classified (Based on available data, the classification criteria are not met)

May cause drowsiness or dizziness. May cause respiratory irritation. STOT-single exposure STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified (Based on available data, the classification criteria are not met).

Potential adverse human health effects and Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing

properties of the product. High concentration of vapours may induce: headache, nausea,

dizziness. Components of the product may be absorbed into the body through the skin

# **SECTION 12: Ecological information**

#### 12.1. Ecotoxicity

Other information

: Harmful to aquatic life with long lasting effects. Ecology - general

Hazardous to the aquatic environment, short-term

: Harmful to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

: Do not flush into surface water or sewer system.

### 12.2. Persistence and degradability

TIP TOP PRIMER PR 500-1	
Persistence and degradability	No data available

### 12.3. Bioaccumulative potential

TIP TOP PRIMER PR 500-1	
Bioaccumulative potential	No data available.

### 12.4. Mobility in soil

TIP TOP PRIMER PR 500-1	
Ecology - soil	No data available.

### 12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

Other adverse effects : No additional information available

### **SECTION 13: Disposal considerations**

Waste treatment methods : Recycling is preferred to disposal or incineration. Can be incinerated according to local

regulations. Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Product/Packaging disposal recommendations

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

disposal.

# **SECTION 14: Transport information**

In accordance with ADG / IMDG / IATA

ADG	IMDG	IATA		
14.1. UN number				
1133	1133	1133		

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ADG	IMDG	IATA		
14.2. UN Proper Shipping Name				
ADHESIVES	ADHESIVES	Adhesives		
14.3. Transport hazard class(es)				
3	3	3		
3	3	3		
14.4. Packing group				
II - Substances presenting medium danger	II	II		
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No		

### 14.6. Special precautions for user

Specific storage requirement No data available Shock sensitivity No data available

### 14.7. Additional information

Other information : No supplementary information available

### Transport by road and rail

UN-No. (ADG) : 1133 Limited quantities (ADG) : 51 Excepted quantities (ADG) : E2 : P001, IBC02 Packing instructions (ADG) Special packing provisions (ADG) : PP1 Portable tank and bulk container instructions (ADG) : T4 Portable tank and bulk container special provisions : TP1, TP8

(ADG)

# Transport by sea

UN-No. (IMDG) : 1133 Limited quantities (IMDG) : 5 L : E2 Excepted quantities (IMDG) : P001 Packing instructions (IMDG) : PP1 Special packing provisions (IMDG) IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1, TP8

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : B

### Air transport

UN-No. (IATA) : 1133 PCA Excepted quantities (IATA) : E2 : Y341 PCA Limited quantities (IATA) : 1L PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L

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Special provisions (IATA) : A3 ERG code (IATA) : 3L

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : \* 3YE

# **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations specific for the product in question

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number

: 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.

### 15.2. International agreements

No additional information available

# **SECTION 16: Other information**

Other information

: Data of sections 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.

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships

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Abbreviations and acronyms:	
ADG	Transport of Australian Dangerous Goods

Classification		
Flam. Liq. 2	H225	
Acute Tox. 4 (Inhalation:dust,mist)	H332	
Skin Irrit. 2	H315	
Eye Irrit. 2A	H319	
Skin Sens. 1	H317	
Muta. 2	H341	
Carc. 2	H351	
STOT SE 3	H336	
STOT SE 3	H335	
STOT RE 2	H373	
Aquatic Acute 3	H402	
Aquatic Chronic 3	H412	

Full text of H-statements		
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard, Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 1B	Carcinogenicity, Category 1B	
Carc. 2	Carcinogenicity, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Muta. 2	Germ cell mutagenicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	

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Full text of H-statements		
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H301	Toxic if swallowed	
H304	May be fatal if swallowed and enters airways	
H311	Toxic in contact with skin	
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	
H330	Fatal if inhaled	
H331	Toxic if inhaled	
H332	Harmful if inhaled	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H341	Suspected of causing genetic defects	
H350	May cause cancer	
H351	Suspected of causing cancer	
H373	May cause damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H402	Harmful to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.