

TIP TOP SOLUTION HL-TNL4

Safety Data Sheet

according to the WHS Regulations

Issue date: Revision date:23/03/2023 Supersedes:23/12/2021 Version: 1.6

SDS No: 00156-0444



SECTION 1: Product identifier

1.1. GHS Product identifier

Product form : Mixture
Product name : TIP TOP SOLUTION HL-TNL4
Product code : 538 1135, 538 1143, 538 1157, 538 1162

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Adhesive

1.4. Details of manufacturer or importer

Supplier

REMA TIP TOP AG
65 Gruber Strasse
Poing 85586
Germany
T +49 (0) 8121 / 707 - 100
info@tiptop.de

Importer

REMA TIP TOP Australia Pty Ltd.
3/20 Worth Street
Chullora NSW 2190
Australia
T +61 2 8755 8400
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
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU) :



Flame

Exclamation
mark

Environment

Signal word (GHS AU) :

Danger

Contains :

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (< 60 %);
Hydrocarbons, C6, iso, < 3% normal hexane (< 20 %)

Hazard statements (GHS AU) :

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS AU) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P240 - Ground and bond container and receiving equipment.
P261 - Avoid breathing vapours.

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P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective gloves, protective clothing.
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.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P332+P313 - If skin irritation occurs: Get medical attention.
P391 - Collect spillage.
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 an approved waste disposal plant.

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 solved in petroleum spirit.

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane	64742-49-0	< 60	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6, iso, < 3% normal hexane	64742-49-0	< 20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Other substances (not contributing to the classification of this product)	-	< 20	Not classified
Zinc oxide	1314-13-2	< 2,5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Colophony	8050-09-7	< 1	Skin Sens. 1, H317
1,3-benzenediol	108-46-3	< 0,3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 1, H370 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
methenamine	100-97-0	< 1	Flam. Sol. 2, H228 Skin Sens. 1, H317
N-phenyl-1-naphthylamine	90-30-2	< 1	Acute Tox. 4 (Oral), H302 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine	793-24-8	< 0,3	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Remove immediately contaminated clothing. In the event of persistent symptoms receive medical treatment. Move the affected person away from the contaminated area.
First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation of vapours or decomposition products. In the event of persistent symptoms receive medical treatment.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately.
First-aid measures after ingestion	: Rinse mouth with water, do not induce vomiting, call a doctor. Drink plenty of water. Do not give an unconscious person anything to drink. Call a poison center or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Aspiration hazard.
Symptoms/effects after skin contact	: Causes skin irritation. May cause sensitisation of susceptible persons by skin contact.

4.3. Medical attention and special treatment

Treatment	: Treat symptomatically.
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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

General measures	: In case of vapour formation use adequate respirator. Ensure adequate ventilation. Evacuate personnel to a safe area. Use personal protective clothing.
Hazardous decomposition products in case of fire	: In case of fire: dangerous decomposition products are formed. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code	: * 3YE
Other information	: Cool containers at risk with water spray jet. The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Vapours are heavier than air and may spread along floors. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : In case of vapour formation use adequate respirator. Ensure adequate ventilation. Evacuate personnel to a safe area. Use personal protective clothing.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe vapours. Avoid contact with skin, eyes and clothing.

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. Collect spillage.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use explosion-proof equipment. Take precautionary measures against static discharge. Do not smoke. Keep away from heat and sources of ignition. Vapours are heavier than air and may spread along floors. Use only outdoors or in a well-ventilated area. Keep container tightly closed.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : 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 : oxidizing materials.

Information on mixed storage : Keep away from oxidizing agents. 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 [1]	10 mg/m ³ dust 5 mg/m ³ fume
OES STEL	10 mg/m ³ 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)

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Carbon black (1333-86-4)	
Australia - Occupational Exposure Limits	
Local name	Carbon black
OES TWA [1]	3 mg/m ³
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)
Silicon dioxide, amorphous (7631-86-9)	
Australia - Occupational Exposure Limits	
Local name	Fumed silica [Silica – Amorphous]
OES TWA [1]	2 mg/m ³ respirable dust
Regulatory reference	Workplace exposure standards for airborne contaminants (2022)

8.2. Biological Monitoring

No additional information available

8.3. Engineering controls

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

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

Hand protection : Protective gloves resistant to chemicals made of nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> 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

Eye protection : Tightly fitting goggles (EN 166)

Skin and body protection : Solvent-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		EN 14387

Environmental exposure controls : Avoid release to the environment.

Other information : Wash hands immediately after handling the product. Do not eat, drink or smoke in areas where product is used. Take off contaminated clothing and wash it before reuse.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Appearance : No data available

Colour : Black

Odour : Hydrocarbon-like

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 : Melting point: < -50 °C

Boiling point : 60 – 95 °C

Flash point : < -25 °C Naphtha (petroleum)

Auto-ignition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : Vapour pressure: 100 – 200 hPa 20°C

Relative density : No data available

Density : Density: < 1 g/cm³

Solubility : immiscible. at 20 °C.

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Log Pow	: No data available
Viscosity, kinematic	: > 20.5 mm ² /s @ 40 °C
Viscosity, dynamic	: < 1200 mPa.s
Explosive properties	: Product is not explosive. May form flammable/explosive vapour-air mixture.
Oxidising properties	: Not oxidising
Explosive limits	: No data available
Minimum ignition energy	: No data available
VOC content	: < 80 %
Fat solubility	: No data available
Additional information	: Solvent content < 80 %

SECTION 10: Stability and reactivity

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Reacts with oxidants.
Conditions to avoid	: Vapour/air-mixtures are explosive at intense warming. To avoid thermal decomposition, do not overheat. Heating can release vapours which can be ignited.
Incompatible materials	: Oxidizing agent.
Hazardous decomposition products	: No hazardous decomposition products known. Thermal decomposition generates : Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 oral	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LD50 dermal	5000 mg/kg
LC50 Inhalation - Rat	> 5.7 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	5.7 mg/l/4h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l/4h
Hydrocarbons, C6, iso, < 3% normal hexane (64742-49-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l/4h
1,3-benzenediol (108-46-3)	
ATE AU (oral)	500 mg/kg bodyweight
N-phenyl-1-naphthylamine (90-30-2)	
ATE AU (oral)	500 mg/kg bodyweight

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N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylendiamine (793-24-8)	
LD50 dermal rabbit	> 7940 mg/kg bodyweight Animal: rabbit, Remarks on results: other:
ATE AU (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.
Hydrocarbons, C6, iso, < 3% normal hexane (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.
1,3-benzenediol (108-46-3)	
STOT-single exposure	Causes damage to organs. May cause damage to organs.
STOT-repeated exposure	: Not classified
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylendiamine (793-24-8)	
LOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: other:
Aspiration hazard	: Not classified
Zinc oxide (1314-13-2)	
Animal studies and expert judgment for classification	False
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
Animal studies and expert judgment for classification	False
Hydrocarbons, C6, iso, < 3% normal hexane (64742-49-0)	
Animal studies and expert judgment for classification	False
1,3-benzenediol (108-46-3)	
Animal studies and expert judgment for classification	False
Colophony (8050-09-7)	
Animal studies and expert judgment for classification	False
methenamine (100-97-0)	
Animal studies and expert judgment for classification	False
N-phenyl-1-naphthylamine (90-30-2)	
Animal studies and expert judgment for classification	False
Other substances (not contributing to the classification of this product)	
Animal studies and expert judgment for classification	False
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylendiamine (793-24-8)	
Animal studies and expert judgment for classification	False

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Potential adverse human health effects and symptoms : Contact with the eyes is likely to be irritating. High concentration of vapours may induce: headache, nausea, dizziness. A longer or repeated contact may lead to irritation of eyes and mucous membranes. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. May cause sensitisation of susceptible persons by skin contact

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.
Other information : Do not flush into surface water or sewer system.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
LC50 fish 1	1 – 10 mg/l
EC50 Daphnia 1	1 – 10 mg/l
Hydrocarbons, C6, iso, < 3% normal hexane (64742-49-0)	
LC50 fish 1	1 – 10 mg/l
EC50 Daphnia 1	1 – 10 mg/l
Colophony (8050-09-7)	
EC50 Daphnia 1	4.5 mg/l
N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (793-24-8)	
LC50 fish 1	0.028 mg/l Test organisms (species): Oryzias latipes
EC50 Daphnia 1	0.23 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	0.087 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.028 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.0037 mg/l Test organisms (species): Oryzias latipes Duration: '30 d'

12.2. Persistence and degradability

Zinc oxide (1314-13-2)	
Not rapidly degradable	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
Persistence and degradability	Readily biodegradable.
Colophony (8050-09-7)	
Not rapidly degradable	

12.3. Bioaccumulative potential

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)	
Bioaccumulative potential	Potentially bioaccumulable.

12.4. Mobility in soil

No additional information available

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12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : Low hazard to waters.

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Fluorinated greenhouse gases False

Zinc oxide (1314-13-2)

Fluorinated greenhouse gases False

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (64742-49-0)

Fluorinated greenhouse gases False

Hydrocarbons, C6, iso, < 3% normal hexane (64742-49-0)

Fluorinated greenhouse gases False

1,3-benzenediol (108-46-3)

Fluorinated greenhouse gases False

Colophony (8050-09-7)

Fluorinated greenhouse gases False

methenamine (100-97-0)

Fluorinated greenhouse gases False

N-phenyl-1-naphthylamine (90-30-2)

Fluorinated greenhouse gases False

Other substances (not contributing to the classification of this product)

Fluorinated greenhouse gases False

N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine (793-24-8)

Fluorinated greenhouse gases False

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.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG) : 1133
UN-No. (IMDG) : 1133
UN-No. (IATA) : 1133

14.2. UN Proper Shipping Name

Proper Shipping Name (ADG) : ADHESIVES

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Proper Shipping Name (IMDG) : ADHESIVES (Naphtha (petroleum))
Proper Shipping Name (IATA) : Adhesives

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : 3
Danger labels (ADG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3



14.4. Packing group

Packing group (ADG) : II - Substances presenting medium danger
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Marine pollutant : Yes
Dangerous for the environment : Yes
Other information : No supplementary information available

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) : 5l
Packing instructions (ADG) : P001, IBC02
Special packing provisions (ADG) : PP1
Portable tank and bulk container instructions (ADG) : T4
Portable tank and bulk container special provisions (ADG) : TP1, TP8

Transport by sea

UN-No. (IMDG) : 1133
Limited quantities (IMDG) : 5 L

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Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
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
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
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

Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS : All the chemicals contained in this product are listed introductions Inventory) status

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

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SECTION 16: Other information

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 ADG - Transport of Australian Dangerous Goods
Revision date	: 23/03/2023
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.

Classification	
Flam. Liq. 2	H225
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Chronic 2	H411

Full text of H-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Sol. 2	Flammable solids, Category 2

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Full text of H-statements	
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H371	May cause damage to organs
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