

# TIP TOP SOLUTION T2-B4

## Safety Data Sheet

according to the Model Work Health and Safety Regulations

Issue date:22/02/2017 Revision date:23/09/2021 Version: 2.3

SDS No: 00156-0114



### SECTION 1: Product identifier

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : TIP TOP SOLUTION T2-B4  
Product code : 517 9015

#### 1.2. Other means of identification

No additional information available

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

Recommended use : Assembling solution

#### 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](mailto:info@tiptop.de)

E-mail address of competent person responsible for the SDS: [sds@gbk-ingelheim.de](mailto:sds@gbk-ingelheim.de)

##### Supplier

REMA TIP TOP Australia Pty Ltd.  
3/20 Worth Street  
Chullora NSW 2190  
Australia  
T +61 2 8755 8400  
[www.rema-tiptop.com.au](http://www.rema-tiptop.com.au)

#### 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
Serious eye damage/eye irritation, Category 2A	H319
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 : Ethyl acetate (< 55 %); Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (< 30 %)

Hazard statements (GHS AU) : H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye 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, forearms and face 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.  
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 doctor, a POISON CENTER if you feel unwell.  
P337+P313 - If eye irritation persists: 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 in organic solvents.  
Ethyl acetate.

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
Ethyl acetate	141-78-6	< 55	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane	92062-15-2	< 30	Flam. Liq. 2, H225 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
Zinc bis(N-ethyl-N-phenyldithiocarbamate)	14634-93-6	< 1	Not classified
N-Cyclohexyl-N-ethylamine	5459-93-8	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
zinc bis(dibutyldithiocarbamate)	136-23-2	< 0,5	Eye Irrit. 2A, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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### SECTION 4: First aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures general	: Take off immediately all 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	: Wash off immediately with soap and plenty of 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.
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Rinse mouth out with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

#### 4.2. Symptoms caused by exposure

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Aspiration hazard.
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation.

#### 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	: Foam. Water spray. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapour.
General measures	: In case of vapour formation use adequate respirator. Ensure adequate air ventilation. Evacuate personnel to a safe area. Use personal protective clothing. Remove ignition sources. Use explosion-proof equipment.
Hazardous decomposition products in case of fire	: In case of fire: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur 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	: Vapours are heavier than air and may spread along floors. The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Cool containers / tanks with spray water if possible. 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. Ensure adequate air ventilation. Evacuate personnel to a safe area. Use personal protective clothing. Remove ignition sources. Use explosion-proof equipment.
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##### 6.1.1. For non-emergency personnel

No additional information available

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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.

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

For containment : Collect spillage.  
Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). 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 : Keep container tightly closed. Vapours are heavier than air and may spread along floors. Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not smoke. Take precautionary measures against static discharge. Use explosion-proof equipment.  
Hygiene measures : Do not inhale vapour. Treat subsequently with skin cream. Avoid contact with skin, eyes and clothing. 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 : Pay attention to explosion protection guidelines. Ground/bond container and receiving equipment.  
Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep away from sources of ignition.  
Incompatible materials : oxidizing materials. Nitrous acid and other nitrosating agents.  
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

Ethyl acetate (141-78-6)	
Australia - Occupational Exposure Limits	
Local name	Ethyl acetate (Acetic acid ethyl ester; Acetic ester)
OES TWA [1]	720 mg/m <sup>3</sup>
OES TWA [2]	200 ppm
OES STEL	1440 mg/m <sup>3</sup>
OES STEL [ppm]	400 ppm
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)
Zinc oxide (1314-13-2)	
Australia - Occupational Exposure Limits	
Local name	Zinc oxide
OES TWA [1]	10 mg/m <sup>3</sup> dust 5 mg/m <sup>3</sup> fume
OES STEL	10 mg/m <sup>3</sup> fume
Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

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### Zinc oxide (1314-13-2)

Regulatory reference : Workplace exposure standards for airborne contaminants (2019)

### 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 : Splash 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

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Butyl rubber	4 (> 120 minutes)	≥0.7		EN ISO 374
protective gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	≥0.4		EN ISO 374

Eye protection : Tightly fitting goggles (EN 166). Eyewash bottle with clean water (EN 15154)

Skin and body protection : Long sleeved protective clothing (DIN EN ISO 6530)

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

## SECTION 9: Physical and chemical properties

Physical state : Liquid  
Appearance : No data available  
Colour : Black  
Odour : Ester like  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point / Freezing point : Melting point: < -20 °C  
Boiling point : > 76 °C  
Flash point : -18 °C  
Auto-ignition temperature : 460 °C  
Flammability (solid, gas) : No data available  
Vapour pressure : Vapour pressure: Not determined  
Relative density : No data available  
Density : Density: 0.9 g/cm<sup>3</sup> @20°C  
Solubility : immiscible. at 20 °C.  
Log Pow : No data available  
Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s @ 40 °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 : < 80 %  
Fat solubility : No data available

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Additional information : Flow time > 30s @23°C, 3 DIN/ISO 2431. Solvent content < 80%. Solvent separation test (%) 0

### SECTION 10: Stability and reactivity

Reactivity : No decomposition if stored normally.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Reactions with oxidizing agents.  
Conditions to avoid : Vapour/air-mixtures are explosive at intense warming. Heating can release vapours which can be ignited. To avoid thermal decomposition, do not overheat.  
Incompatible materials : Nitrous acid and other nitrosating agents. Oxidizing agent.  
Hazardous decomposition products : Carbon monoxide. Carbon dioxide. Sulphur oxides. Nitrogen oxides. An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

### SECTION 11: Toxicological information

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

#### Ethyl acetate (141-78-6)

LD50 oral rat	4935 mg/kg
LC50 Inhalation - Rat	1600 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

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
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.

#### Ethyl acetate (141-78-6)

STOT-single exposure	May cause drowsiness or dizziness.
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#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (92062-15-2)

STOT-single exposure	May cause drowsiness or dizziness.
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#### zinc bis(dibutyldithiocarbamate) (136-23-2)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified.  
Potential adverse human health effects and symptoms : 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. An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces

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### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

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.

#### Ethyl acetate (141-78-6)

LC50 fish 1	> 100 mg/l
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#### 12.2. Persistence and degradability

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Persistence and degradability	No data available.
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#### Zinc oxide (1314-13-2)

Not rapidly degradable

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (92062-15-2)

Not rapidly degradable

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available.
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#### 12.4. Mobility in soil

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Ecology - soil	No data available.
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#### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : Slightly hazardous to water.

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Fluorinated greenhouse gases	False
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#### Ethyl acetate (141-78-6)

Fluorinated greenhouse gases	False
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#### Zinc oxide (1314-13-2)

Fluorinated greenhouse gases	False
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#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 3% normal hexane (92062-15-2)

Fluorinated greenhouse gases	False
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#### N-Cyclohexyl-N-ethylamine (5459-93-8)

Fluorinated greenhouse gases	False
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#### Zinc bis(N-ethyl-N-phenyldithiocarbamate) (14634-93-6)

Fluorinated greenhouse gases	False
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### zinc bis(dibutyldithiocarbamate) (136-23-2)

Fluorinated greenhouse gases : False

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

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

ADG	IMDG	IATA
<b>14.1. UN number</b>		
1133	1133	1133
<b>14.2. UN Proper Shipping Name</b>		
ADHESIVES	ADHESIVES	Adhesives (Solvent naphtha (petroleum))
<b>14.3. Transport hazard class(es)</b>		
3	3	3
<b>14.4. Packing group</b>		
II - substances presenting medium danger	II	II
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

### 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) : 5I
- Excepted quantities (ADG) : E2
- Packing instructions (ADG) : P001, IBC02
- Special packing provisions (ADG) : PP1
- Portable tank and bulk container instructions (ADG) : T4



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Portable tank and bulk container special provisions (ADG) : TP1, TP8

### Transport by sea

UN-No. (IMDG) : 1133  
Transport regulations (IMDG) : Transport in accordance with section 2.3.2.5 of the IMDG (viscous substance) may be applied  
Limited quantities (IMDG) : 5 L  
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 Inventory) status : All components of this mixture are listed on or exempted from AICIS

#### 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

: 23/09/2021

#### 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
Eye Irrit. 2A	H319
STOT SE 3	H336
Aquatic Chronic 2	H411

#### Full text of H-statements

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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

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Full text of H-statements	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic 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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
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

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.