

Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



Zaponlack Carl ROTH liquid

article number: **6804**
Version: **GHS 1.1 en**
Replaces version of: 2021-08-13
Version: (GHS 1)

date of compilation: 2021-08-13
Revision: 2021-08-27

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

1.1 Product identifier

Identification of the substance **Zaponlack Carl ROTH liquid**
Article number 6804

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

Relevant identified uses: Laboratory chemical
Laboratory and analytical use
Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone:+49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

e-mail (competent person): **sicherheit@carlroth.de**

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.8D	Specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

For full text of abbreviations: see SECTION 16

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The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling

Signal word

Danger

Pictograms

GHS02, GHS05,
GHS07



Hazard statements

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Precautionary statements - response

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

Precautionary statements - storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed
P403+P235	Store in a well-ventilated place. Keep cool

Hazardous ingredients for labelling:

2-Methyl-1-propanol, Acetic acid n-butyl ester, 1-Butanol, Acetic acid iso-propyl ester

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

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Description of the mixture

Name of sub-stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Acetic acid n-butyl ester	CAS No 123-86-4	25 - 50	Flam. Liq. 3 / H226 STOT SE 3 / H336 EUH066		
Acetic acid iso-propyl ester	CAS No 108-21-4	10 - 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		C(c)
1-Methoxy-2-propanol	CAS No 107-98-2	2.5 - 10	Flam. Liq. 3 / H226 STOT SE 3 / H336		
2-Propanol	CAS No 67-63-0	2.5 - 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336		
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	CAS No 64742-49-0	2.5 - 10	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 EUH066		
Acetic acid ethyl ester	CAS No 141-78-6	2.5 - 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		
1-Butanol	CAS No 71-36-3	2.5 - 10	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336		
2-Methyl-1-propanol	CAS No 78-83-1	2.5 - 10	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336		
Ethanol	CAS No 64-17-5	< 2.5	Flam. Liq. 2 / H225 Eye Irrit. 2A / H319		IARC: 1

Notes

C(c): The substance is a specific isomer. Other isomers see Part 3 of the Regulation (EC) No 1272/2008
IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

For full text of abbreviations: see SECTION 16

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SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting, Risk of blindness, Risk of serious damage to eyes, Irritation, Dizziness, Drowsiness, Narcosis

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings
water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), May produce toxic fumes of carbon monoxide if burning.

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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
AU	propylene glycol monomethyl ether (1-methoxypropan-2-ol)	107-98-2	WES	100	369	150	553				WES
AU	isopropyl acetate	108-21-4	WES	250	1,040	310	1,290				WES
AU	n-butyl acetate	123-86-4	WES	150	713	200	950				WES
AU	ethyl acetate (acetic acid, ethyl ester)	141-78-6	WES	200	720	400	1,440				WES
AU	ethyl alcohol (ethanol)	64-17-5	WES	1,000	1,880						WES
AU	isopropyl alcohol (propan-2-ol)	67-63-0	WES	400	983	500	1,230				WES
AU	n-butyl alcohol (butan-1-ol)	71-36-3	WES					50	152		WES
AU	isobutyl alcohol (2-methylpropan-1-ol) (isobutanol)	78-83-1	WES	50	152						WES

Notation

Ceiling-C
STEL

Ceiling value is a limit value above which exposure should not occur
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Acetic acid n-butyl ester	123-86-4	DNEL	960 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Acetic acid n-butyl ester	123-86-4	DNEL	960 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Acetic acid n-butyl ester	123-86-4	DNEL	480 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Acetic acid n-butyl ester	123-86-4	DNEL	480 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Acetic acid iso-propyl ester	108-21-4	DNEL	275 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Acetic acid iso-propyl ester	108-21-4	DNEL	558 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Acetic acid iso-propyl ester	108-21-4	DNEL	227 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Acetic acid iso-propyl ester	108-21-4	DNEL	27 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-Propanol	67-63-0	DNEL	500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-Propanol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-Methoxy-2-propanol	107-98-2	DNEL	369 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Methoxy-2-propanol	107-98-2	DNEL	553.5 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
1-Methoxy-2-propanol	107-98-2	DNEL	553.5 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1-Methoxy-2-propanol	107-98-2	DNEL	183 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-Methyl-1-propanol	78-83-1	DNEL	310 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
1-Butanol	71-36-3	DNEL	310 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Acetic acid ethyl ester	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Acetic acid ethyl ester	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Acetic acid ethyl ester	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Acetic acid ethyl ester	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Acetic acid ethyl ester	141-78-6	DNEL	63 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	2,035 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethanol	64-17-5	DNEL	1,900 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Ethanol	64-17-5	DNEL	343 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Ethanol	64-17-5	DNEL	950 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Acetic acid n-butyl ester	123-86-4	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
Acetic acid n-butyl ester	123-86-4	PNEC	35.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid n-butyl ester	123-86-4	PNEC	0.981 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetic acid n-butyl ester	123-86-4	PNEC	0.0981 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetic acid n-butyl ester	123-86-4	PNEC	0.0903 mg/kg	terrestrial organisms	soil	short-term (single instance)
Acetic acid n-butyl ester	123-86-4	PNEC	0.36 mg/l	aquatic organisms	water	intermittent release
Acetic acid n-butyl ester	123-86-4	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	0.22 mg/l	aquatic organisms	freshwater	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	0.022 mg/l	aquatic organisms	marine water	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	190 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	1.25 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	0.125 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetic acid iso-propyl ester	108-21-4	PNEC	0.35 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-Propanol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-Propanol	67-63-0	PNEC	140.9 mg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-Propanol	67-63-0	PNEC	2,251 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-Propanol	67-63-0	PNEC	552 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-Propanol	67-63-0	PNEC	552 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-Propanol	67-63-0	PNEC	28 mg/kg	terrestrial organisms	soil	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	100 mg/l	aquatic organisms	water	intermittent release
1-Methoxy-2-propanol	107-98-2	PNEC	10 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	52.3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	5.2 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-Methoxy-2-propanol	107-98-2	PNEC	4.59 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	0.4 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	0.04 mg/l	aquatic organisms	marine water	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	1.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	0.156 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-Methyl-1-propanol	78-83-1	PNEC	0.076 mg/kg	terrestrial organisms	soil	short-term (single instance)
1-Butanol	71-36-3	PNEC	0.082 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-Butanol	71-36-3	PNEC	0.008 mg/l	aquatic organisms	marine water	short-term (single instance)
1-Butanol	71-36-3	PNEC	2,476 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-Butanol	71-36-3	PNEC	0.324 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-Butanol	71-36-3	PNEC	0.032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
1-Butanol	71-36-3	PNEC	0.017 mg/kg	terrestrial organisms	soil	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	1.65 mg/l	aquatic organisms	water	intermittent release
Acetic acid ethyl ester	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Acetic acid ethyl ester	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
Ethanol	64-17-5	PNEC	0.79 mg/cm ³	unknown	marine water	intermittent release
Ethanol	64-17-5	PNEC	2.75 mg/cm ³	unknown	air	intermittent release
Ethanol	64-17-5	PNEC	3.6 mg/cm ³	unknown	freshwater sediment	intermittent release
Ethanol	64-17-5	PNEC	580 mg/cm ³	unknown	sewage treatment plant (STP)	intermittent release
Ethanol	64-17-5	PNEC	0.63 mg/cm ³	unknown	soil	intermittent release
Ethanol	64-17-5	PNEC	0.96 mg/cm ³	unknown	freshwater	intermittent release

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



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• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

Butyl caoutchouc (butyl rubber)

• material thickness

0,7mm

• breakthrough times of the glove material

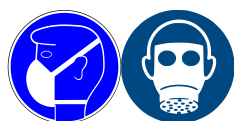
>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	78 °C
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1.8 vol% - 10 vol%
Flash point	13 °C at 1,013 hPa
Auto-ignition temperature	>200 °C
Decomposition temperature	not relevant
pH (value)	5 - 6 (20 °C)

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10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Acetic acid n-butyl ester	123-86-4	inhalation: vapour	LC50	23.4 mg/l/4h	rat
Acetic acid n-butyl ester	123-86-4	oral	LD50	10,760 mg/kg	rat
Acetic acid n-butyl ester	123-86-4	dermal	LD50	>14,112 mg/kg	rabbit
Acetic acid iso-propyl ester	108-21-4	oral	LD50	6,750 mg/kg	rat
2-Propanol	67-63-0	inhalation: vapour	LC50	37.5 mg/l/4h	rat
2-Propanol	67-63-0	oral	LD50	5,045 mg/kg	rat
2-Propanol	67-63-0	dermal	LD50	12,800 mg/kg	rabbit
1-Methoxy-2-propanol	107-98-2	oral	LD50	3,739 mg/kg	rat
1-Methoxy-2-propanol	107-98-2	dermal	LD50	>2,000 mg/kg	rat
2-Methyl-1-propanol	78-83-1	inhalation: vapour	LC50	24.6 mg/l/4h	rat
2-Methyl-1-propanol	78-83-1	oral	LD50	3,350 mg/kg	rat
2-Methyl-1-propanol	78-83-1	dermal	LD50	2,460 mg/kg	rabbit
1-Butanol	71-36-3	oral	LD50	2,292 mg/kg	rat
1-Butanol	71-36-3	dermal	LD50	3,430 mg/kg	rabbit
Acetic acid ethyl ester	141-78-6	oral	LD50	5,620 mg/kg	rat
Acetic acid ethyl ester	141-78-6	dermal	LD50	>20,000 mg/kg	rabbit
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	inhalation: vapour	LC50	>23.3 mg/l/4h	rat
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	dermal	LD50	>2,800 – 3,100 mg/kg	rat
Ethanol	64-17-5	inhalation: vapour	LC50	95.6 mg/l/4h	rat

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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	oral	LD50	7,060 mg/kg	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting

• If in eyes

Causes serious eye damage, risk of blindness

• If inhaled

fatigue, narcosis

• If on skin

causes skin irritation

• Other information

none

11.2 Endocrine disrupting properties

None of the ingredients are listed.

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SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Acetic acid n-butyl ester	123-86-4	LC50	18 mg/l	fish	96 h
Acetic acid n-butyl ester	123-86-4	EC50	18 mg/l	fish	96 h
Acetic acid n-butyl ester	123-86-4	ErC50	335 mg/l	algae	24 h
Acetic acid iso-propyl ester	108-21-4	EC50	110 mg/l	aquatic invertebrates	48 h
2-Propanol	67-63-0	LC50	9,640 mg/l	Pimephales promelas	96 h
1-Methoxy-2-propanol	107-98-2	LC50	≥1,000 mg/l	rainbow trout	96 h
2-Methyl-1-propanol	78-83-1	LC50	1,430 mg/l	fish	96 h
2-Methyl-1-propanol	78-83-1	EC50	1,100 mg/l	aquatic invertebrates	48 h
2-Methyl-1-propanol	78-83-1	ErC50	1,799 mg/l	algae	72 h
1-Butanol	71-36-3	LC50	1,376 mg/l	fish	96 h
1-Butanol	71-36-3	EC50	1,328 mg/l	aquatic invertebrates	48 h
1-Butanol	71-36-3	ErC50	225 mg/l	algae	96 h
Acetic acid ethyl ester	141-78-6	LC50	230 mg/l	fish	96 h
Acetic acid ethyl ester	141-78-6	EC50	220 mg/l	fish	96 h
Ethanol	64-17-5	LC50	8,140 mg/l	orfe (Leuciscus idus)	96 h
Ethanol	64-17-5	EC50	9,000 – 14,000 mg/l	daphnia magna	48 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Acetic acid n-butyl ester	123-86-4	EC50	34.2 mg/l	aquatic invertebrates	21 d
Acetic acid n-butyl ester	123-86-4	LC50	43.5 mg/l	aquatic invertebrates	21 d
2-Propanol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h
1-Butanol	71-36-3	EC50	18 mg/l	aquatic invertebrates	21 d
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	EC50	0.23 mg/l	aquatic invertebrates	21 d

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Biodegradation

Data are not available.

12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Acetic acid n-butyl ester	123-86-4	biotic/abiotic	83 %	28 d		
Acetic acid n-butyl ester	123-86-4	oxygen depletion	80 %	5 d		ECHA
Acetic acid iso-propyl ester	108-21-4	oxygen depletion	61 %	5 d		ECHA
2-Propanol	67-63-0	biotic/abiotic	95 %	21 d	modifizierter OECD Screening Test	
2-Propanol	67-63-0	oxygen depletion	53 %	5 d		ECHA
1-Methoxy-2-propanol	107-98-2	biotic/abiotic	90 %	29 d		
1-Methoxy-2-propanol	107-98-2	DOC removal	96 %	28 d		ECHA
2-Methyl-1-propanol	78-83-1	biotic/abiotic	99 %	14 d	modifizierter OECD Screening Test	
2-Methyl-1-propanol	78-83-1	oxygen depletion	70 – 80 %	28 d		ECHA
1-Butanol	71-36-3	biotic/abiotic	98 %	28 d		
1-Butanol	71-36-3	oxygen depletion	68 %	5 d		ECHA
Acetic acid ethyl ester	141-78-6	biotic/abiotic	100 %	28 d		
Acetic acid ethyl ester	141-78-6	oxygen depletion	62 %	5 d		ECHA
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0	oxygen depletion	83 %	16 d		ECHA
Ethanol	64-17-5	biotic/abiotic	94 %	d		

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Acetic acid n-butyl ester	123-86-4		2.3 (pH value: ~7, 25 °C)	
Acetic acid iso-propyl ester	108-21-4		1.28 (pH value: 7, 20 °C)	

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Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-Propanol	67-63-0		0.05	
1-Methoxy-2-propanol	107-98-2		<1 (pH value: 6.8, 20 °C)	
2-Methyl-1-propanol	78-83-1		1 (pH value: 7, 25 °C)	
1-Butanol	71-36-3		1 (pH value: 7, 25 °C)	
Acetic acid ethyl ester	141-78-6	30	0.68 (pH value: 7, 25 °C)	
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	64742-49-0		4 - 5.7	
Ethanol	64-17-5		-0.31	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

Relevant provisions relating to waste(Basel Convention)

Properties of waste which render it hazardous

H3 Flammable liquids

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

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SECTION 14: Transport information

14.1 UN number

UN RTDG	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

UN RTDG	PAINT
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

UN RTDG	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

UN RTDG	II
IMDG-Code	II
ICAO-TI	II

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user


There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport information National regulations Additional information(UN RTDG)

UN number	1263
Class	3
Packing group	II
Danger label(s)	3
	
Special provisions (SP)	163, 367 UN RTDG
Excepted quantities (EQ)	E2 UN RTDG
Limited quantities (LQ)	5 L UN RTDG

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International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	PAINT
Particulars in the shipper's declaration	UN1263, PAINT, 3, II, 13°C c.c.
Marine pollutant	-
Danger label(s)	3



Special provisions (SP)	163, 367
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 L
EmS	F-E, <u>S-E</u>
Stowage category	B

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name	Paint
Particulars in the shipper's declaration	UN1263, Paint, 3, II
Danger label(s)	3



Special provisions (SP)	A3, A72, A192
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

All ingredients are listed or exempt from listing.

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed

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Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

Restructuring: section 9, section 14

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level

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Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne conatminants

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Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.