

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Zaponlack Carl ROTH liquid

article number: **6804**
Version: **2.1 en**
Replaces version of: 2021-08-13
Version: (2)

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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
Registration number (REACH) not relevant (mixture)

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
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	01 809 2166	https://www.poisons.ie/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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

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Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

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
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P210 Keep away from open flames and hot surfaces. No smoking
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment
P280 Wear protective gloves/eye protection

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Hazardous ingredients for labelling:

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

Labelling of packages where the contents do not exceed 125 ml

Signal word: **Danger**

Symbol(s)



H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
P280 Wear protective gloves/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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contains: 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

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Acetic acid n-butyl ester	CAS No 123-86-4 EC No 204-658-1 Index No 607-025-00-1 REACH Reg. No 01-2119485493- 29-xxxx	25 – 50	Flam. Liq. 3 / H226 STOT SE 3 / H336 EUH066	 	GHS-HC IOELV
Acetic acid iso-propyl ester	CAS No 108-21-4 EC No 203-561-1 Index No 607-024-00-6 REACH Reg. No 01-2119537214- 46-xxxx	10 – 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066	 	C(c) GHS-HC
1-Methoxy-2-propanol	CAS No 107-98-2 EC No 203-539-1 Index No 603-064-00-3 REACH Reg. No 01-2119457435- 35-xxxx	2,5 – 10	Flam. Liq. 3 / H226 STOT SE 3 / H336	 	GHS-HC IOELV
2-Propanol	CAS No 67-63-0 EC No 200-661-7 Index No 603-117-00-0 REACH Reg. No 01-2119457558- 25-xxxx	2,5 – 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 	GHS-HC






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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	CAS No 64742-49-0 EC No 920-750-0 Index No 649-328-00-1 REACH Reg. No 01-2119473851-33-xxxx	2,5 – 10	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066		
Acetic acid ethyl ester	CAS No 141-78-6 EC No 205-500-4 Index No 607-022-00-5 REACH Reg. No 01-2119475103-46-xxxx	2,5 – 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 EUH066		GHS-HC IOELV
1-Butanol	CAS No 71-36-3 EC No 200-751-6 Index No 603-004-00-6 REACH Reg. No 01-2119484630-38-xxxx	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		GHS-HC
2-Methyl-1-propanol	CAS No 78-83-1 EC No 201-148-0 Index No 603-108-00-1 REACH Reg. No 01-2119484609-23-xxxx	2,5 – 10	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336		GHS-HC
Ethanol	CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5 REACH Reg. No 01-2119457610-43-xxxx	< 2,5	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319		GHS-HC IARC: 1

Notes

C(c): The substance is a specific isomer. Other isomers see Part 3 of the Regulation (EC) No 1272/2008

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

IOELV: Substance with a community indicative occupational exposure limit value

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Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
1-Butanol	CAS No 71-36-3 EC No 200-751-6 Index No 603-004-00-6	-	-	500 mg/kg	oral

For full text of abbreviations: see SECTION 16

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

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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.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. 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. Retain contaminated washing water and dispose of it. 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.

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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.

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
EU	1-methoxy-2-propanol	107-98-2	IOELV	100	375	150	568				2000/39/EC
EU	n-butyl acetate	123-86-4	IOELV	50	241	150	723				2019/1831/EU

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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
EU	ethyl acetate	141-78-6	IOELV	200	734	400	1.468				2017/164/EU
IE	propylene glycol monomethyl ether	107-98-2	OELV	100	375	150	568				S.I. No. 619 of 2001
IE	isopropyl acetate	108-21-4	OELV	100		150					S.I. No. 619 of 2001
IE	butyl acetate	123-86-4	OELV	150	710	200	950				S.I. No. 619 of 2001
IE	ethyl acetate	141-78-6	OELV	200	734	400	1.468				S.I. No. 619 of 2001
IE	ethanol	64-17-5	OELV			1.000					S.I. No. 619 of 2001
IE	isopropyl alcohol	67-63-0	OELV	200		400					S.I. No. 619 of 2001
IE	butan-1-ol	71-36-3	OELV	20							S.I. No. 619 of 2001
IE	isobutyl alcohol	78-83-1	OELV	50	150	75	225				S.I. No. 619 of 2001

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)

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	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

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
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
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

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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)
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)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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)
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)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
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



• 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)

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• 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)
Kinematic viscosity	not determined
<u>Solubility(ies)</u>	
Water solubility	(poorly soluble)
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	<1.100 hPa at 50 °C
Density	0,88 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Zaponlack Carl ROTH liquid

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Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard classes:

Flammable liquids

Sustained combustibility yes, sustained combustion was observed

Other safety characteristics:

Temperature class (EU, acc. to ATEX) T3
Maximum permissible surface temperature on the equipment: 200°C

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

If heated

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

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

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 according to GHS (1272/2008/EC, CLP)

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Zaponlack Carl ROTH liquid

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Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
1-Butanol	71-36-3	oral	500 mg/kg

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
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.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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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.

11.3 Information on other hazards

There is no additional information.

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

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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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	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

Biodegradation

Data are not available.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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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)	
2-Propanol	67-63-0		0,05	
1-Methoxy-2-propanol	107-98-2		<1 (pH value: 6,8, 20 °C)	

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Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
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. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

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.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

ADR/RID/ADN	PAINT
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

ADR/RID/ADN	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID/ADN	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


Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name	PAINT
Particulars in the transport document	UN1263, PAINT, 3, II, (D/E), special provision 640D Special provision 640D
Classification code	F1
Danger label(s)	3
	
Special provisions (SP)	163, 367, 640D, 650
Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 L
Transport category (TC)	2

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Tunnel restriction code (TRC) D/E

Hazard identification No 33

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, S-E

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Zaponlack	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Hydrocarbons, C ₇ -C ₉ , n-alkanes, isoalkanes, cyclics	flammable / pyrophoric		R40	40
1-Methoxy-2-propanol	flammable / pyrophoric		R40	40
Acetic acid iso-propyl ester	flammable / pyrophoric		R40	40

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Acetic acid iso-propyl ester	substances in tattoo inks and permanent make-up		R75	75
Acetic acid n-butyl ester	flammable / pyrophoric		R40	40
Acetic acid ethyl ester	flammable / pyrophoric		R40	40
Acetic acid ethyl ester	substances in tattoo inks and permanent make-up		R75	75
Ethanol	flammable / pyrophoric		R40	40
Ethanol	substances in tattoo inks and permanent make-up		R75	75
2-Propanol	flammable / pyrophoric		R40	40
2-Propanol	substances in tattoo inks and permanent make-up		R75	75
1-Butanol	flammable / pyrophoric		R40	40
1-Butanol	substances in tattoo inks and permanent make-up		R75	75
2-Methyl-1-propanol	flammable / pyrophoric		R40	40
2-Methyl-1-propanol	substances in tattoo inks and permanent make-up		R75	75

Legend

- R3
- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - Articles not complying with paragraph 1 shall not be placed on the market.
 - Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and
 - present an aspiration hazard and are labelled with H304.
 - Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
 - grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
 - lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40
- Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopee' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 - Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
 - 'For professional users only'.
 - By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 - The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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Legend

- R75
1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
 - (ii) 0,01 % by weight, in all other cases;
 - (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
 - (i) "Rinse-off products";
 - (ii) "Not to be used in products applied on mucous membranes";
 - (iii) "Not to be used in eye products";
 - (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
 - (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
 - (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
 - (a) the statement "Mixture for use in tattoos or permanent make-up";
 - (b) a reference number to uniquely identify the batch;
 - (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
 - (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
 - (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
 - (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
 - (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use. Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

Deco-Paint Directive

VOC content	100 % , 880 g/l
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Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	880 g/l
VOC content Water content was discounted	880 g/l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Ethanol	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the		A)	

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List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
	aquatic environment			
2-Propanol	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

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
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

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Country	Inventory	Status
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: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	Supplemental hazard information		yes
2.1		Supplemental hazard information: change in the listing (table)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-statements: see SECTION 16.		yes
2.1	The most important adverse physicochemical, human health and environmental effects: Narcotic effects.	The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2	Supplemental hazard information		yes
2.2		Supplemental hazard information: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: butyl alcohol (except tert-butyl alcohol), n-butyl acetate, 2-methylpropan-1-ol, isopropyl acetate	Hazardous ingredients for labelling: 2-Methyl-1-propanol, Acetic acid n-butyl ester, 1-Butanol, Acetic acid iso-propyl ester	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2	contains: Butyl alcohol (except tert-butyl alcohol), n-Butyl acetate, 2-Methylpropan-1-ol, Isopropyl acetate	contains: 2-Methyl-1-propanol, Acetic acid n-butyl ester, 1-Butanol, Acetic acid iso-propyl ester	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
2019/1831/EU	Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
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
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

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Abbr.	Descriptions of used abbreviations
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
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
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
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds

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Abbr.	Descriptions of used abbreviations
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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