

Safety Data Sheet

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



Trade name : Spray Paint Zinc 1054
Sprühlack Zinkspray 1054
Revision date : 03.04.2022
Print date : 03.04.2022

Version (Revision) : 18.0.0 (17.0.0)

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

1.1 Product identifier

Spray Paint Zinc 1054
Sprühlack Zinkspray 1054

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

Relevant identified uses

Products Category [PC]

PC 9 - Coatings and paints, fillers, putties, thinners.

Uses advised against

There are no information about relevant identified uses of the product according to the Regulation (EC) No. 1907/2006 (REACH-Regulation), which are advised against. For using the product observe the information in the Technical data sheet of the product.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co KG
www.brillux.de

Street : Weseler Straße 401

Postal code/City : D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):
(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)
Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Environment (GHS09)

Signal word

Danger

Hazard statements

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H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing spray.
P501 Dispose of contents/container to approved disposal company or local collection.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P391 Collect spillage.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains COBALT BIS(2-ETHYLHEXANOATE). May produce an allergic reaction.

2.3 Other hazards

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605. The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

Adverse physicochemical effects

Caution! Container is under pressure.
Without sufficient ventilation formation of explosive mixtures may be possible.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Mixture based on components, which are called following, and other components.

Hazardous ingredients

ZINC POWDER - ZINC DUST (STABILIZED) ; REACH No. : 01-2119467174-37 ; EC No. : 231-175-3; CAS No. : 7440-66-6
Weight fraction : $\geq 25 - < 50$ %
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

PROPANE ; REACH No. : 01-2119486944-21 ; EC No. : 200-827-9; CAS No. : 74-98-6
Weight fraction : $\geq 10 - < 25$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

BUTANE ; REACH No. : 01-2119474691-32 ; EC No. : 203-448-7; CAS No. : 106-97-8
Weight fraction : $\geq 10 - < 25$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4
Weight fraction : $\geq 10 - < 25$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336 EUH066

ISOBUTANE ; REACH No. : 01-2119485395-27 ; EC No. : 200-857-2; CAS No. : 75-28-5
Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7
Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312

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Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335
HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; REACH No. : 01-2119472146-39 ; EC No. : 292-459-0 ; CAS No.
: 90622-57-4

Weight fraction : $\geq 1 - < 2,5 \%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Aquatic Chronic 4 ; H413 EUH066

HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; REACH No. : 01-2119456810-40 ; EC No. : 292-460-6 ; CAS
No. : 90622-58-5

Weight fraction : $\geq 1 - < 2,5 \%$
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 EUH066

COBALT BIS(2-ETHYLHEXANOATE) ; REACH No. : 01-2119524678-29 ; EC No. : 205-250-6 ; CAS No. : 136-52-7

Weight fraction : $\geq 0,01 - < 0,1 \%$
Classification 1272/2008 [CLP] : Repr. 1B ; H360Fd Skin Sens. 1A ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400
Aquatic Chronic 3 ; H412

Additional information

The used hydrocarbons contain no benzene or benzene in concentrations less than 0.1 percent by weight and fulfil therefore the default(handicap) of the remark P to the appendix VI of the order (EC) No. 1272/2008 (GHS order).

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

Following ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Headache, dizziness, giddiness, skin irritation, eye iriitation and irritation to respiratory tract are possible. Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Can form explosive gas-air mixtures. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep no protective persons away, personal should wear protective clothings. Refer to protective measures listed in sections 7 and 8. Avoid contact with eyes and skin. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Ensure adequate ventilation. The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

6.4 Reference to other sections

See Section 7 for information on safe handling.
You find information about the safety equipment of persons in the section 8,
information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Keep away from heat and direct sunlight. Ensure a good ventilation in room and working area. Avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit) or other thresholds. Vapours are heavier than air - ensure a good ventilation in room and working area. Read label before use.

Measures to prevent fire

Keep ignition sources away - Do not smoke. Container is under pressure. Protect against sunshine and heating over 50 °C. After use: do not open violently or burn. Do not spray into flames or on glowing materials.

Measures to prevent aerosol and dust generation

Do not breathe gas or spray.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Observe official regulations on storing packagings with pressurized containers. Store in a well-ventilated place. Keep cool. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Do not store the product in lounge room. Keep out of

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the reach of children.

Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs.

Storage class (TRGS 510) : 2B

Further information on storage conditions

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : This product can not be encoded in accordance with GISBAU.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6

Limit value type (country of origin) : MAK - Grenzwerte in der Luft am Arbeitsplatz (D)

Parameter : A: respirable fraction

Limit value : 0,1 mg/m³

Version :

Limit value type (country of origin) : MAK - Grenzwerte in der Luft am Arbeitsplatz (D)

Parameter : E: inhalable fraction

Limit value : 2 mg/m³

Version :

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 62 ppm / 300 mg/m³

Peak limitation : 2(I)

Remark : Y

Version : 02.07.2021

ISOBUTANE ; CAS No. : 75-28-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 1000 ppm / 2400 mg/m³

Peak limitation : 4(II)

Version : 02.07.2021

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 100 ppm / 440 mg/m³

Peak limitation : 4

Version : 01.10.1993

HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4

Limit value type (country of origin) : TRGS 900 (D)

Parameter : Group limit for the calculation of the occupational exposure limit for hydrocarbon mixtures (see section 2.9 of Technical Rule 900).

Limit value : 300 mg/m³

Version :

HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5

Limit value type (country of origin) : TRGS 900 (D)

Parameter : Group limit for the calculation of the occupational exposure limit for hydrocarbon mixtures (see section 2.9 of Technical Rule 900).

Limit value : 300 mg/m³

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Version :
PROPANE ; CAS No. : 74-98-6
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 1800 mg/m³
Peak limitation : 4(II)
Version : 02.07.2021

BUTANE ; CAS No. : 106-97-8
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 2400 mg/m³
Peak limitation : 4(II)
Version : 02.07.2021

Remark

Short time value (STEL): Excess factor 2 (II) according to the german TRGS 900.
Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

Biological limit values

XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift
Limit value : 2000 mg/l
Version : 01.10.1993

DNEL-/PNEC-values

DNEL/DMEL

ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 0,83 mg/kg

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 83 mg/kg

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 2,5 mg/m³

Limit value type : DNEL/DMEL (Worker)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 5 mg/m³

Limit value type : DNEL/DMEL (Worker)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 83 mg/kg

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 102,34 mg/m³

Limit value type : DNEL/DMEL (Industrial)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 96 mg/kg

Limit value type : DNEL/DMEL (Industrial)

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Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 48 mg/m³
Limit value type : DNEL/DMEL (Industrial)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7 mg/kg
Limit value type : DNEL/DMEL (Industrial)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 480 mg/m³

XYLENE ; CAS No. : 1330-20-7

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 174 mg/m³
Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 14,8 mg/m³
Limit value type : DNEL/DMEL (Consumer)

Exposure route : Oral
Exposure frequency : Long-term
Limit value : 1,6 mg/kg
Assessment factor : 1 D
Limit value type : DNEL/DMEL (Consumer)

Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 108 mg/kg
Assessment factor : 1 D

Limit value type : DNEL/DMEL (Professional)

Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 289 mg/m³
Limit value type : DNEL/DMEL (Professional)

Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 174 mg/m³
Limit value type : DNEL/DMEL (Professional)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 77 mg/m³

PNEC

ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,0206 mg/l

Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,0061 mg/l

Limit value type : PNEC (Sediment, freshwater)
Exposure route : Soil
Limit value : 117,8 mg/kg

Limit value type : PNEC (Sediment, marine water)
Exposure route : Soil

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Limit value : 56,5 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 35,6 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 0,052 mg/l

N-BUTYL ACETATE ; CAS No. : 123-86-4
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,18 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Exposure route : Water (Including sewage plant)
Limit value : 0,36 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,018 mg/l
Limit value type : PNEC (Sediment, freshwater)
Exposure route : Soil
Limit value : 0,981 mg/kg
Limit value type : PNEC (Sediment, marine water)
Exposure route : Soil
Limit value : 0,0981 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 0,0903 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 35,6 mg/l

XYLENE ; CAS No. : 1330-20-7
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,327 mg/l
Limit value type : PNEC (Sediment, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 12,46 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 2,31 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 6,58 mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

Personal protection equipment

Eye/face protection

Use safety glasses.

Skin protection

Hand protection

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At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min. By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use the combination filter mask A2 - P3. Do not breathe gas or spray.

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe the gas or spray.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Aerosol.

Colour : conformable to product designation.

Odour

Smell of organic solvents.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	No data available
Initial boiling point and boiling range :	(1013 hPa)	-44 °C
Decomposition temperature :	(1013 hPa)	No data available
Flash point :	<	0 °C
Auto-ignition temperature :		365 °C
Lower explosion limit :		1,5 Vol-%
Upper explosion limit :		11,5 Vol-%
Vapour pressure:	(20 °C)	3600 hPa
Density :	(20 °C)	1,561 g/cm ³
Water solubility :	(20 °C)	Not mixable
pH :		not applicable
log P O/W :		No data available
Viscosity :	(20 °C)	No data available
Kinematic viscosity :	(40 °C)	No data available
Solid content :		49,7 Weight-%
Solvent content :		50,2 Weight-%
Relative vapour density :	(20 °C)	No data available
VOC-value :	<	840 g/l
Aerosols :	Extremely flammable.	
Particle Characteristics :	not applicable	

9.2 Other information

Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

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10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

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

Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter :	LD50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	10760 mg/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	4300 mg/kg
Parameter :	LD50 (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Dermal
Species :	Rabbit

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Effective dose : > 14000 mg/kg
Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2000 mg/kg
Parameter : LD50 (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg
Parameter : LD50 (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 5,41 mg/l
Exposure time : 4 h
Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 23,4 mg/kg
Exposure time : 4 h
Parameter : LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 659 g/m³
Parameter : LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route : Inhalation
Species : Mouse
Effective dose : 680 g/m³
Parameter : LC50 (ISOBUTANE ; CAS No. : 75-28-5)
Exposure route : Inhalation
Species : Rat
Effective dose : 57 pph
Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 22 mg/l
Exposure time : 4 h
Parameter : LC50 (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5000 mg/m³
Exposure time : 8 h
Parameter : LC50 (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5000 mg/m³
Exposure time : 8 h

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Corrosion

Irritation:

- Skin contact: May cause slightly irritant.
- Eye contact: May cause slightly irritant.

Respiratory or skin sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation, kidneys and liver damages, as well as leading the impairment of the central nervous system.

Symptoms and signs include headache: dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

The liquid splashed in the eyes may cause irritation and reversible damage.

STOT-repeated exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Aspiration hazard

The product contains substances, which are classified as aspiration toxicity, category 1 (May be fatal if swallowed and enters airways), in accordance to the Regulation (EC) No. 1272/2008 (CLP-Regulation) in their pure form. Based on available data the classification criteria according to Regulation (EC) No 1272/2008 [CLP] are not fulfilled.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

Other adverse effects

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species :	Pimephales promelas (fathead minnow)
Effective dose :	18 mg/l
Exposure time :	96 h
Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	2,6 mg/l
Exposure time :	96 h
Parameter :	NOELR (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Species :	Pseudokirchneriella subcapitata
Effective dose :	1000 mg/l
Exposure time :	72 h

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Parameter : NOELR (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Species : Pseudokirchneriella subcapitata
Effective dose : 1000 mg/l
Exposure time : 72 h
Parameter : NOELR (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Species : Daphnia magna (Big water flea)
Effective dose : 1 mg/l
Exposure time : 21 D
Parameter : NOELR (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Species : Daphnia magna (Big water flea)
Effective dose : > 1 mg/l
Exposure time : 21 D

Acute (short-term) toxicity to crustacea

Parameter : EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Daphnia magna (Big water flea)
Effective dose : 44 mg/l
Exposure time : 48 h
Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna (Big water flea)
Effective dose : 1 - 10 mg/l
Exposure time : 48 h

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Desmodesmus subspicatus
Effective dose : 647,7 mg/l
Exposure time : 72 h
Parameter : EL50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Desmodesmus subspicatus
Effective dose : 200 mg/l
Parameter : IC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Scenedesmus subspicatus
Effective dose : 2,2 mg/l
Parameter : ELO (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Species : Daphnia magna (Big water flea)
Effective dose : 1000 mg/l
Exposure time : 48 h
Parameter : ELO (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Species : Daphnia magna (Big water flea)
Effective dose : 1000 mg/l
Exposure time : 48 h
Parameter : ELO (HYDROCARBONS, C11-C15, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-58-5)
Species : Pseudokirchneriella subcapitata
Effective dose : 1000 mg/l
Exposure time : 72 h
Parameter : ELO (HYDROCARBONS, C9-C12, ISOALKANES, < 2% AROMATICS ; CAS No. : 90622-57-4)
Species : Pseudokirchneriella subcapitata
Effective dose : 1000 mg/l
Exposure time : 72 h

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Toxicity to microorganisms

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Bacteria toxicity
Effective dose : 96 mg/l
Exposure time : 24 h

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

Biodegradation

Parameter : Biodegradation (XYLENE ; CAS No. : 1330-20-7)
Inoculum : Biodegradation
Degradation rate : > 60 %
Test duration : 28 D

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.
A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties according to Article 59 Paragraph 1 or substances with endocrine-disrupting properties according to Regulations (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

Very toxic to aquatic life. May cause long-term adverse effects in the aquatic environment. Very toxic to aquatic life.

12.8 Additional ecotoxicological information

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.
Avoid exposing into ground, waterways and drainage.
Danger of drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Dispose of contents/container to approved disposal company or local collection according to the local regulations.
Packaging with not dry uped residues have to dropped at official collecting sites. Packaging with dry uped residues can be disposed together with household garbage or building site garbage. Do not empty into waters or drains.

Waste codes/waste designations according to EWC/AVV

For the product:
Disposal-definition No.: 08 01 11* - Paint and varnish waste which contains organic solvents or other dangerous substances.

After intended use

Only empty packaging can be transfered to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

Waste codes/waste designations according to EWC/AVV

For the uncleaned packaging:
Disposal-definition No.: 15 01 10 * packings which contain dangerous substances or are polluted by dangerous substances.

SECTION 14: Transport information

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14.1 UN number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS

Sea transport (IMDG)

AEROSOLS

Air transport (ICAO-TI / IATA-DGR)

AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23
Tunnel restriction code : D
Special provisions : LQ 1 | · E 0
Hazard label(s) : 2.1 / N

Sea transport (IMDG)

Class(es) : 2.1
EmS-No. : F-D / S-U
Special provisions : LQ 1 | · E 0
Hazard label(s) : 2.1

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 2.1
Hazard label(s) : 2.1

14.4 Packing group

-

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

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

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

14.8 Additional information

ADR/RID: Limited quantities.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

National regulations

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Water hazard class

Self-classification - Class : 2 (Obviously hazardous to water)

Additional information

Maternity regulations and Young Persons Employment Act are to take into account.

15.2 Chemical Safety Assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds
ATEmix: Calculated acute toxicity estimate of mixture
BCF: Bio-Concentration Factor
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
CSR: Chemical Safety Report
DNEL: Derived No Effect Level
EC: European Commission
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EWC: European Waste Catalogue
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Lethal concentration 50%
LD50: Lethal Dose 50%
LOAEL: Lowest Observed Adverse Effect Level
LOEL: Lowest observable effect level
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)
MARPOL: Convention for the Prevention of Marine Pollution from Ships
MVZ: molar ratio
n.a.: Not applicable
n.d.: Not determined
n.r.: Not relevant
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limit
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RCP: Reciprocal calculation procedure

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REACH: Registration, Evaluation and Authorization of Chemical
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
SVHC: Substance of Very High Concern
TLV - TWA: Threshold Limit Value - Time Weighted Average
VOC: Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

16.5 Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360F _d	May damage fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.