

Safety Data Sheet

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



Trade name : 2K-EP-Zinkstaubfarbe 5707, Grau (5707.-.7101)
Revision date : 13.01.2020
Print date : 13.01.2020

Version (Revision) : 8.0.0 (7.0.0)

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

1.1 Product identifier

2K-EP-Zinkstaubfarbe 5707, Grau (5707.-.7101)

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

Solvent-based coating. Intended purpose see technical data sheet.

Relevant identified uses

Product Categories [PC]

PC9 - Coatings and paints, fillers, putties, thinners

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co. KG, Industrielack
www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/city : D-59423 Unna

Telephone : +49 2303 8805-0

Telefax : +49 2303 8805-119

Information contact : E-mail address of the competent person for safety data sheets: sdb@brillux-industrielack.de

1.4 Emergency telephone number

Giftinformationszentrum-Nord (poisons centre), consultation in german and english
Telephone: +49 551 19 24 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700-1100) ; CAS No. :

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25036-25-3
Fatty acids, tall-oil, compds. with oleylamine ; CAS No. : 85711-55-3
Fatty acids, C18-unsatd., trimers, compds. with oleylamine ; CAS No. : 147900-93-4

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ZINC POWDER - ZINC DUST (STABILIZED) ; REACH registration No. : 01-2119467174-37 ; EC No. : 231-175-3; CAS No. : 7440-66-6

Weight fraction : $\geq 75 - < 80$ %
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; REACH registration No. : 01-2119455851-35 ; EC No. : 918-668-5; CAS No. : 64742-95-6

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight 700-1100) ; CAS No. : 25036-25-3

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319

XYLENE ; REACH registration No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

5-METHYLHEXAN-2-ONE ; REACH registration No. : 01-2119472300-51 ; EC No. : 203-737-8; CAS No. : 110-12-3

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332

ETHYLBENZENE ; REACH registration No. : 01-2119489370-35 ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332 Aquatic Chronic 3 ; H412

2-METHYLPROPAN-1-OL ; REACH registration No. : 01-2119484609-23 ; EC No. : 201-148-0; CAS No. : 78-83-1

Weight fraction : $\geq 1 - < 3$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

Fatty acids, tall-oil, compds. with oleylamine ; EC No. : 288-315-1; CAS No. : 85711-55-3

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Weight fraction : $\geq 0,01 - < 0,1 \%$
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317
Fatty acids, C18-unsatd., trimers, compds. with oleylamine ; CAS No. : 147900-93-4
Weight fraction : $\geq 0,01 - < 0,1 \%$
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap Do not wash with: Solvents/Thinner

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. No direct artificial respiration to be given by first aider.

4.2 Most important symptoms and effects, both acute and delayed

Fever; Nausea; Vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder, alcohol resistant foam, carbon dioxide (CO₂), water spray.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂) and pyrolysis products, toxic. Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), zinc oxide fume and pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid: Inhalation of vapours or spray/mists Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Never use pressure to empty container. Only allow access to authorised staff.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

Advices on general occupational hygiene

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Floors should be impervious, resistant to liquids and easy to clean. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed.

Hints on joint storage

Storage class (TRGS 510) : 3

Do not store together with

Strong acid, strong alkali, oxidising agent, food and feedingstuffs.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Protect against : Heat. Humidity.

7.3 Specific end use(s)

Solvent-based coating. Intended purpose see technical data sheet.

Industrial sector specific solutions

Note DGV-Rule 100-500, section 2.29 (processing coating materials). Note DGV-Rule 109-013.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6

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

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Limit value : 50 ppm / 100 mg/m³
Peak limitation : 2(II)
Remark : AGS
Version :
Limit value type (country of origin) : TWA (D)
Limit value : 25 mg/kg
Version :
XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 01.10.1993
Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Version :
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Version :
5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 95 mg/m³
Version : 29.03.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 95 mg/m³
Version : 31.01.2018
ETHYLBENZENE ; CAS No. : 100-41-4
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m³
Peak limitation : 2(II)
Remark : H, Y
Version : 29.03.2019
Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m³
Remark : H
Version : 31.01.2018
Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 31.01.2018
2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 310 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 29.03.2019

Biological limit values

XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 1,5 mg/l
Remark : 5/2013 DFG
Version : 01.10.1993
Limit value type (country of origin) : TRGS 903 (D)

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Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Version : 01.10.1993
ETHYLBENZENE ; CAS No. : 100-41-4
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Mandelic acid + Phenylglyoxy acid / Urine (U) / End of exposure or end of shift
Limit value : 250 mg/g Kr
Version : 29.03.2019

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 0,83 mg/kg
Limit value type : DNEL/DMEL (Consumer) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 83 mg/kg
Limit value type : DNEL/DMEL (Consumer) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 2,5 mg/m³
Limit value type : DNEL/DMEL (Worker) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 5 mg/m³
Limit value type : DNEL/DMEL (Worker) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 83 mg/kg
Limit value type : DNEL worker (local) (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 25 mg/kg
Limit value type : DNEL worker (local) (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 150 mg/m³
Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/kg
Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/kg

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Limit value type : DNEL/DMEL (Industrial) (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 8 mg/kg
Safety factor : 1 Days

Limit value type : DNEL/DMEL (Industrial) (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 95 mg/m³

Limit value type : DNEL/DMEL (Industrial) (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 818 mg/m³

Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/m³

Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 77 mg/m³

Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 180 mg/kg

Limit value type : DNEL/DMEL (Consumer) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 25 mg/kg
Safety factor : 1 Days

Limit value type : DNEL/DMEL (Consumer) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 55 mg/m³

Limit value type : DNEL/DMEL (Industrial) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 310 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Water (Including sewage plant)
Limit value : 0,0206 mg/l

Limit value type : PNEC (Aquatic, marine water) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Water (Including sewage plant)
Limit value : 0,0061 mg/l

Limit value type : PNEC (Sediment, freshwater) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Soil
Limit value : 117,8 mg/kg

Limit value type : PNEC (Sediment, marine water) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Soil
Limit value : 56,5 mg/kg

Limit value type : PNEC soil (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Soil

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Limit value : 35,6 mg/kg
Limit value type : PNEC (Sewage treatment plant) (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route : Water (Including sewage plant)
Limit value : 0,052 mg/l
Limit value type : PNEC (Aquatic, freshwater) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Water (Including sewage plant)
Limit value : 0,327 mg/l
Limit value type : PNEC (Sediment, freshwater) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Water (Including sewage plant)
Limit value : 12,46 mg/kg
Limit value type : PNEC soil (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Soil
Limit value : 2,31 mg/kg
Limit value type : PNEC (Sewage treatment plant) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Water (Including sewage plant)
Limit value : 6,58 mg/l
Limit value type : PNEC (Industrial) (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Water (Including sewage plant)
Limit value : 0,1 mg/l
Limit value type : PNEC (Industrial) (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Soil
Limit value : 0,166 mg/kg
Limit value type : PNEC (Aquatic, freshwater) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Water (Including sewage plant)
Limit value : 0,4 mg/l
Limit value type : PNEC (Aquatic, marine water) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Water (Including sewage plant)
Limit value : 0,04 mg/l
Limit value type : PNEC (Sediment, freshwater) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Soil
Limit value : 1,52 mg/kg
Limit value type : PNEC (Sediment, marine water) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Soil
Limit value : 0,125 mg/kg
Limit value type : PNEC soil (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Soil
Limit value : 0,0699 mg/kg
Limit value type : PNEC (Sewage treatment plant) (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Water (Including sewage plant)
Limit value : 10 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

goggles (EN 166)

Remark

Note DGUV-Rule 112-192.

Skin protection

Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in chapter 2, according to the glove manufactures.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note DGUV-Rule 112-195. Note TRGS 401.

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Body protection

Required properties : Antistatic, non-melting.

Recommended material : Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

Remark : Note DGUV-Rule 112-189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: Insufficient ventilation, insufficient exhaust or spray application.

Suitable respiratory protection apparatus

Combination filter mask A2-P2 for short-term work.

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

Occupational exposure controls

Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : According to product identification.

Odour

Like solvent.

Safety relevant basis data

Melting point/melting range :			not applicable	
Initial boiling point and boiling range :	(1013 hPa)	approx.	120 - 200	°C
Decomposition temperature :			No data available	
Flash point :		>	23 - 60	°C
Ignition temperature :			No data available	
Lower explosion limit :		approx.	0,7	Vol-%
Upper explosion limit :		approx.	10	Vol-%
Vapour pressure :	(50 °C)	<	100	hPa
Density :	(20 °C)		2,5 - 3	g/cm ³
Solvent separation test :	(20 °C)	<	3	%
Water solubility :	(20 °C)		insoluble	
pH :			No data available	
log P O/W :			No data available	
Flow time :	(20 °C)	>	90	s DIN-cup 4 mm
Viscosity :	(23 °C)		200 - 250	mPa.s
Cinematic viscosity :	(40 °C)	>	20,5	mm ² /s
Solid content :			80 - 90	Wt %
Odour threshold :			not relevant	
Relative vapour density :	(20 °C)		not applicable	
Vapourisation rate :			No data available	
Oxidising liquids :	Not oxidising.			

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

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10.1 Reactivity

No information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Reacts with water.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Water. Alkali (lye), concentrated. Acid, concentrated. Oxidizing agent.

10.6 Hazardous decomposition products

After contact with water: Hydrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 (ZINC POWDER - ZINC DUST (STABILIZED) ; CAS No. : 7440-66-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 3000 mg/kg
Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	8700 mg/kg
Parameter :	LD50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	5657 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	3500 mg/kg
Parameter :	LD50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	2830 mg/kg

Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	23504 mg/kg
Parameter :	LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 3000 mg/kg

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Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Parameter : LD50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Dermal
Species : Guinea pig
Effective dose : > 8 g/kg
Parameter : LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : 5000 mg/kg
Parameter : LD50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Dermal
Species : Rat
Effective dose : 3400 mg/kg
Exposure time : 4 h

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : 151,7 mg/l
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 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 6350 mg/l
Parameter : LC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Inhalation
Species : Rat
Effective dose : 3813 ppm
Exposure time : 6 h
Parameter : LC50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Exposure route : Inhalation
Species : Rat
Effective dose : 8000 ppm

Practical experience/human evidence

Inhalation of zinc oxide fumes can cause fever, muscle pains, shivering and nausea. In general these troubles last only 24 hours without any after-effect (zinc fever).

Assessment/classification

Vapours may cause drowsiness and dizziness.

Irritant and corrosive effects

Irritation to respiratory tract

May cause respiratory irritation.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

In case of skin contact

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

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Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Fish
Effective dose : 9,2 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
Method : OECD 203
Parameter : LC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Effective dose : 159 mg/l
Exposure time : 96 h
Parameter : LC50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Species : Pimephales promelas (fathead minnow)
Effective dose : 1430 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : > 1,3 mg/l
Exposure time : 56 Days

Acute (short-term) daphnia toxicity

Parameter : EC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Daphnia magna (Big water flea)
Effective dose : 3,2 mg/l
Exposure time : 48 h
Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna (Big water flea)
Effective dose : 1 mg/l
Exposure time : 24 h
Method : OECD 202
Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Species : Daphnia magna (Big water flea)
Effective dose : 1100 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia
Effective dose : 1,17 mg/l
Exposure time : 7 Days
Parameter : NOEC (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Daphnia magna (Big water flea)
Effective dose : > 91 mg/l
Method : OECD 211
Parameter : NOEC (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Species : Daphnia magna (Big water flea)
Effective dose : 20 mg/l
Exposure time : 21 Days

Acute (short-term) algae toxicity

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Parameter : ErC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,6 - 2,9 mg/l
Exposure time : 72 h
Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,2 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Species : Pseudokirchneriella subcapitata
Effective dose : 632 mg/l
Exposure time : 72 h
Parameter : EL50 (2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1)
Species : Pseudokirchneriella subcapitata
Effective dose : 53 mg/l
Exposure time : 72 h

Chronic (long-term) algae toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : 0,44 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

Biodegradation

The solvent is biodegradable. In accordance with the required stability the product is poorly biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

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 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose according to legislation.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

EWC-Code: 08 01 11.

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Waste code packaging

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

Waste treatment options

Appropriate disposal / Package

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

Note sections 7 and 8.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT

Sea transport (IMDG)

PAINT (ZINC POWDER)

Air transport (ICAO-TI / IATA-DGR)

PAINT

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3 / N

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / ~~S-E~~
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

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Other regulations (EU)

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 0,5 %

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

15. Restrictions on use

16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the german employers liability insurance association. DGUV: German Statutory Accident Insurance. AwSV: Ordinance on plants for the handling of substances hazardous to water. VCI: German chemical industry association. EWC: European Waste Catalogue.

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]

Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

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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.
