Zinc Coat

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
First edition: 15.05.1997 Last revision: 09.10.2023 Supersedes version of: 25.04.2023 Version: 22.2

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

1.1. Product identifier

Product form	: Mixture
Name	: Zinc Coat
Product number	: 02.1106.0070

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

1.2.1. Relevant identified uses

Main use category	: Industrial use,Professional use
Use of the substance or preparation	: High-quality anti-rust coating for bare metals. Also ideal to use as a primer on various surfaces, such as old paintwork and non-ferrous metals.

1.2.2. Uses advised against

No information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
BIG : +32 (0) 14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1	H222;H229
Eye Irrit. 2	H319
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1B	H350
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07 GHS08 GHS09

Signal word (CLP) : Danger

Contains : Acetone; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%); Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; 2-Butanone oxime; Cobalt bis(2-ethylhexanoate); Naphtha (petroleum), hydrodesulfurized heavy (Contains < 0,1% benzene (71-43-2))

Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H340 - May cause genetic defects.
H350 - May cause cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : 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.
P260 - Do not breathe mist, vapours, spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.
EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Acetone	CAS number: 67-64-1 EINECS / ELINCS number: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330-49	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butane (Contains < 0,1% butadiene (203-450-8))	CAS number: 106-97-8 EINECS / ELINCS number: 203-448-7 REACH-no: 01-2119474691-32	10 – 25	Flam. Gas 1A, H220 Press. Gas
Propane	CAS number: 74-98-6 EINECS / ELINCS number: 200-827-9 REACH-no: 01-2119486944-21	2,5 – 10	Flam. Gas 1A, H220 Press. Gas
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	EINECS / ELINCS number: 919-446-0 REACH-no: 01-2119458049-33	2,5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	CAS number: 68920-06-9 EINECS / ELINCS number: 920-750-0 REACH-no: 01-2119473851-33	2,5 – 10	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Trizinc bis(orthophosphate)	CAS number: 7779-90-0 EINECS / ELINCS number: 231-944-3 EC Index-No.: 030-011-00-6 REACH-no: 01-2119485044-40	2,5 – 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	EINECS / ELINCS number: 927-241-2 REACH-no: 01-2119471843-32	2,5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Xylene	CAS number: 1330-20-7 EINECS / ELINCS number: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	2,5 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Isobutane	CAS number: 75-28-5 EINECS / ELINCS number: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	2,5 – 10	Flam. Gas 1A, H220 Press. Gas
Titanium oxide	CAS number: 13463-67-7 EINECS / ELINCS number: 236-675-5	1 – 2,5	Carc. 2, H351
Ethylbenzene	CAS number: 100-41-4 EINECS / ELINCS number: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35	0,1 – 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
2-Butanone oxime	CAS number: 96-29-7 EINECS / ELINCS number: 202-496-6 EC Index-No.: 616-014-00-0 REACH-no: 01-2119539477-28	0,1 – 1	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 1, H370 STOT SE 3, H336 STOT RE 2, H373
Naphtha (petroleum), hydrodesulfurized heavy (Contains < 0,1% benzene (71-43-2))	CAS number: 64742-82-1 EINECS / ELINCS number: 265-185-4	0,1 – 1	Flam. Liq. 1, H224 Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Cobalt bis(2-ethylhexanoate)	CAS number: 136-52-7 EINECS / ELINCS number: 205-250-6 REACH-no: 01-2119524678-29	0,25 – 0,3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Get medical advice/attention if you feel unwell.

Inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: No irritant effect.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	: Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes damage to organs through prolonged or repeated exposure.
Inhalation	: May cause drowsiness or dizziness.
Skin contact	: Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
Eyes contact	: Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Water spray. Alcohol resistant foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing.

6.1.1. For non-emergency personnel

Protective equipment	: Refer to protective measures listed in Sections 7 and 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This product and its container must be disposed of in a safe way, and as per local legislation. Do not flush with aqueous cleansing agents.
Other information	: Provide adequate ventilation.

6.4. Reference to other sections

Stable in use and storage conditions as recommended in item 7. Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Do not pierce or burn, even after use. In use, may form flammable vapour-air mixture. Do not spray on a naked flame or any incandescent material. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Precautions for safe handling	: Take precautionary measures against static discharge. Eliminate all ignition sources if safe to do so.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C. Keep in fireproof place. Smoking is forbidden. Store in a dry place. Keep away from ignition sources.

Technical condition(s) : Store in a well-ventilated place. The floor of the depot should be impermeable and designed to form a water-tight basin.

Special rules on packaging : Store in a closed container. Keep only in original container. Store under dry conditions.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Butane (106-97-8)	
United Kingdom - Occupational Exposure Limits	
Local name	Butane
WEL TWA (OEL TWA) [1]	1450 mg/m³
WEL TWA (OEL TWA) [2]	600 ppm
WEL STEL (OEL STEL)	1810 mg/m³
WEL STEL (OEL STEL) [ppm]	750 ppm
Remark	Carc (Capable of causing cancer and/or heritable genetic damage, only applies if Butane contains more than 0.1% of buta-1,3-diene)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Acetone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetone
IOEL TWA	1210 mg/m³
IOEL TWA [ppm]	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Acetone
WEL TWA (OEL TWA) [1]	1210 mg/m³
WEL TWA (OEL TWA) [2]	500 ppm
WEL STEL (OEL STEL)	3620 mg/m³
WEL STEL (OEL STEL) [ppm]	1500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	White spirit Type 1
IOEL TWA	116 mg/m³
IOEL TWA [ppm]	20 ppm
IOEL STEL	290 mg/m³
IOEL STEL [ppm]	50 ppm
Remark	Skin. (Year of adoption 2007)
Regulatory reference	SCOEL Recommendations

Ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m³
IOEL TWA [ppm]	100 ppm

Ethylbenzene (100-41-4)	
IOEL STEL	884 mg/m³
IOEL STEL [ppm]	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Ethylbenzene
WEL TWA (OEL TWA) [1]	441 mg/m³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	552 mg/m³
WEL STEL (OEL STEL) [ppm]	125 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Titanium oxide (13463-67-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Titanium dioxide
WEL TWA (OEL TWA) [1]	4 mg/m³ respirable 10 mg/m³ total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Naphtha (petroleum), hydrodesulfurized heavy (Contains < 0,1% benzene (71-43-2)) (64742-82-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	White spirit Type 1
IOEL TWA	116 mg/m³
IOEL TWA [ppm]	20 ppm
IOEL STEL	290 mg/m³
IOEL STEL [ppm]	50 ppm
Remark	Skin. (Year of adoption 2007)
Regulatory reference	SCOEL Recommendations

Xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m³
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m³
IOEL STEL [ppm]	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Xylene
WEL TWA (OEL TWA) [1]	220 mg/m³ o-,m-,p- or mixed isomers
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers

Xylene (1330-20-7)	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Xylene, o-, m-, p- or mixed isomers
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures
No information available

8.1.3. Air contaminants formed
No information available

8.1.4. DNEL and PNEC

Acetone (67-64-1)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2420 mg/m³
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1210 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	62 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 mg/m³
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	30,4 mg/kg (Undefind)
PNEC aqua (marine water)	1,06 mg/l (Undefind)
PNEC (Sediment)	
PNEC sediment (marine water)	3,04 mg/kg dwt (Undefind)
PNEC (Soil)	
PNEC soil	29,5 mg/kg dwt (Undefind)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	330 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	71 mg/m³
Long-term - systemic effects, dermal	26 mg/kg bodyweight/day

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (68920-06-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	773 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2035 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	699 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	608 mg/m³

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (68920-06-9)	
Long-term - systemic effects, dermal	699 mg/kg bodyweight/day

Cobalt bis(2-ethylhexanoate) (136-52-7)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	235,1 µg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	55,8 µg/kg bodyweight/day
Long-term - local effects, inhalation	37 µg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,6 µg/l
PNEC aqua (marine water)	2,36 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	9,5 mg/kg dwt
PNEC sediment (marine water)	9,5 mg/kg dwt
PNEC (Soil)	
PNEC soil	10,9 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0,37 mg/l

8.1.5. Control banding

No information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

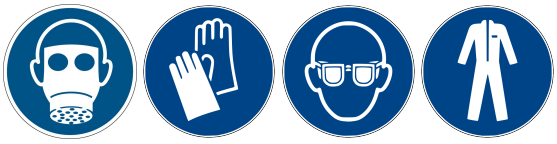
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

In case of inadequate ventilation wear respiratory protection. Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear closed safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Skin protection:

Wear suitable protective clothing

Hand protection:

Where hand contact with the product may occur, the use of gloves (approved according to the EN374 standard) made from the following materials may provide suitable chemical protection: Nitrile rubber. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available. In this case a lower breakthrough time may be acceptable as long as appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Depending on model and material, glove thickness generally should be greater than 0,35 mm. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. . Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV

8.2.2.4. Thermal hazards

No information available

8.2.3. Environmental exposure controls

No information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Light grey.
Appearance	: Aerosol.
Odour	: characteristic.
Odour threshold	: Not available
Melting point/melting range	: Not available
Freezing point	: Not available
Boiling point/range	: Not applicable, since the product is an aerosol.
Flammability	: Not available
Explosive limits	: 0,6 – 13 vol %
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: ≥ Not applicable, since the product is an aerosol.
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not available
pH	: not measurable
Viscosity, kinematic	: ≤ 20,5 mm²/s 40 °C
Solubility	: Water: Practically not miscible
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2100 hPa (20 °C)
Vapour pressure at 20 °C	: Not available
Density	: Not available
Relative density (water = 1)	: 0,748 (20 °C)
Vapour density	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 0,6 – 13 vol %

9.2.2. Other safety characteristics

V.O.C. (V.O.S.) : 657,9 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. In use, may form flammable/explosive vapour-air mixture.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No information available

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

No information available

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Butane (106-97-8)	
LC50/inhalation/4h/rat	658000 mg/m³

Acetone (67-64-1)	
LD50/oral/rat	5800 mg/kg
LD50/dermal/rabbit	7800 mg/kg
LC50/inhalation/4h/rat	> 20 mg/l

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 3160 mg/kg

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (68920-06-9)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2800 mg/kg
LC50/inhalation/4h/rat	> 23 mg/l

Ethylbenzene (100-41-4)	
LD50/oral/rat	3500 – 4700 mg/kg
LC50 Inhalation - Rat (Vapours)	17,4 mg/l/4h

Trizinc bis(orthophosphate) (7779-90-0)	
LD50 dermal rat	> 5000 mg/kg

2-Butanone oxime (96-29-7)	
LD50/oral/rat	2528 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50/inhalation/4h/rat	20 mg/m³

Cobalt bis(2-ethylhexanoate) (136-52-7)	
LD50/oral/rat	3129 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), 95% CL: 1750 - 5000
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Titanium oxide (13463-67-7)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 10000 mg/kg
LC50/inhalation/4h/rat	3,43 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 6,82 mg/l/4h

Naphtha (petroleum), hydrodesulfurized heavy (Contains < 0,1% benzene (71-43-2)) (64742-82-1)	
LD50/oral/rat	2000 mg/kg

Xylene (1330-20-7)	
LD50/oral/rat	4300 mg/kg
LD50/dermal/rabbit	2000 mg/kg

Skin corrosion/irritation : Not classified

pH: not measurable

Serious eye damage/irritation : Causes serious eye irritation.
pH: not measurable

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (68920-06-9)	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	
STOT-single exposure	May cause drowsiness or dizziness.

2-Butanone oxime (96-29-7)	
STOT-single exposure	Causes damage to organs. May cause drowsiness or dizziness.

Xylene (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

2-Butanone oxime (96-29-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Naphtha (petroleum), hydrodesulfurized heavy (Contains < 0,1% benzene (71-43-2)) (64742-82-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Xylene (1330-20-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

Zinc Coat	
Viscosity, kinematic	≤ 20,5 mm²/s 40 °C

11.2. Information on other hazards
No information available

SECTION 12: Ecological information
12.1. Toxicity
Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Toxic to aquatic life with long lasting effects.

Acetone (67-64-1)	
EC50 - Other aquatic organisms [1]	8300 mg/l (Fish, 96h)
EC50 - Other aquatic organisms [2]	8800 mg/l (Daphnia magna)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromates (2-25%)	
LC50/96h/fish	10 – 30 mg/l (Oncorhynchus mykiss)
EC50/48h/daphnia magna	10 – 22 mg/l
EC50 72h - Algae [1]	4,6 – 10 mg/l (Pseudokirchneriella subcapitata, 72h)
LOEC (chronic)	0,203 mg/l 21 days
NOEC (chronic)	0,097 mg/l 21 days

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (68920-06-9)	
LC50/96h/fish	> 13,4 (Oncorhynchus mykiss)
EC50/48h/daphnia magna	3 mg/l
EC50 - Other aquatic organisms [1]	10 – 30 (72h, Pseudokirchneriella subcapitata)
LOEC (chronic)	0,32 mg/l (21 Days, Daphnia magna)
NOEC (chronic)	0,17 mg/l (21 days, Daphnia magna)

Ethylbenzene (100-41-4)	
LC50/96h/fish	4,2 mg/l (Oncorhynchus mykiss, OECD 203)
ErC50 algae	0 – 5,4 mg/l (72h, Pseudokirchneriella subcapitata, OECD 201)

Trizinc bis(orthophosphate) (7779-90-0)	
LC50/96h/fish	0,14 mg/l
EC50/48h/daphnia magna	0,04 mg/l
EC50 - Other aquatic organisms [1]	0,136 mg/l (72h, Algae)

Titanium oxide (13463-67-7)	
LC50/96h/fish	> 1000 mg/l
LC50 - Fish [2]	> 10000 mg/l
EC50/24h/daphnia magna	2 mg/l
EC50 - Other aquatic organisms [1]	> 10000 mg/l
EC50 - Other aquatic organisms [2]	61 mg/l
NOEC (chronic)	0,01 mg/l rat
NOEC chronic algae	56000 mg/l

Xylene (1330-20-7)	
LC50/96h/fish	8,9 – 16,4 mg/l (Pimephales promelas)
EC50/48h/daphnia magna	3,2 – 9,5 mg/l

12.2. Persistence and degradability
No information available

12.3. Bioaccumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT and vPvB assessment
No information available

12.6. Endocrine disrupting properties
No information available

12.7. Other adverse effects
Other adverse effects : Toxic to fish.

Additional information : Danger to drinking water, even if small amounts leak into the subsoil. Toxic to aquatic organisms. Avoid release to the environment. Also poisonous for fish and plankton in water bodies.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Regional legislation (waste) : Disposal must be done according to official regulations.

Waste / unused products	: Avoid release to the environment. Should not be landfilled with household waste.
European List of Waste (LoW) code	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 04 - metallic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR)	: UN 1950
UN-No. (IMDG)	: UN 1950
UN-No. (IATA)	: UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS, flammable
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable
Transport document description (ADR)	: UN 1950 AEROSOLS, flammable, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2
Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 2.1
Danger labels (ADR)	: 2.1

:

IMDG

Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1

:

IATA

Transport hazard class(es) (IATA)	: 2.1
Danger labels (IATA)	: 2.1

:

14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: Yes (Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.)
Marine pollutant	: Yes (IMDG 5.2.1.6.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Further information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Limited quantities (ADR)	: 1l

Transport category (ADR) : 2
Tunnel restriction code : D

Transport by sea

Limited quantities (IMDG) : 1 L
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

Air transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

V.O.C. (V.O.S.) : 657,9 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Supersedes	Added	
	Last revision	Added	
14.2	Proper Shipping Name (ADR)	Modified	

Abbreviations and acronyms:	
	ACGIH = American Conference of Governmental Industrial Hygienists
	ADR = Accord européen sur le transport des marchandises dangereuses par Route
	ATE = Acute Toxicity Estimate
	CSR = Chemical Safety Report
	CLP = Classification, labelling and packaging
	CAS = Chemical Abstracts Service
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No-Effect Level
	DPD = Dangerous Preparation Directive
	DSD = Dangerous Substance Directive
	EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HTP = Haitallisiksi tunnetut pitoisuudet
	IATA = International Air Transport Association
	ICAO = International Civil Aviation Organization
	IMDG = International Maritime Code for Dangerous Goods
	IOELV = Indicative Occupational Exposure Limit Value (EU)
	LC50 = Lethal concentration, 50 percent
	LD50 = Lethal dose, 50 percent
	LEL = Lower Explosion Limit
	MAK = Maximale Arbeitsplatzkonzentrationen
	MAL-kode = Måleteknisk Arbejdshygiejnisk Luftbehov
	N.O.S. = Not Otherwise Specified
	NDS = Najwyższe Dopuszczalne Stężenie
	NDSCh = Najwyższe Dopuszczalne Stężenie Chwilowe
	OEL = Occupational Exposure Limits
	PBT = Persistent, bioaccumulative and toxic
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	PNEC = Predicted No-Effect Concentration
	RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
	STEL = Short term exposure limit
	STOT RE = specific target organ toxicity repeated exposure
	STOT SE = specific target organ toxicity single exposure
	TLV = Threshold Limit Value
	SVHC = Substance of Very High Concern
	TRGS = Technischen Regeln für Gefahrstoffe
	TWA = time weighted average
	UEL = Upper Explosion Limit
	VLA-EC = valores límite ambientales para la exposición de corta duración
	VLA-ED = valores límite ambientales para la exposición diaria
	VLE = Valeur Limite d'exposition
	VME = Valeur Limite de Moyenne d'exposition

Abbreviations and acronyms:	
	VOC = Volatile Organic Compounds
	vPvB = very Persistent and very Bioaccumulative
	WGK = Wassergefärhdungsklasse

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H301	Toxic 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.
H340	May cause genetic defects.
H350	May cause cancer.

Full text of H- and EUH-statements:	
H351	Suspected of causing cancer.
H360F	May damage fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
Muta. 1B	Germ cell mutagenicity, Category 1B
Press. Gas	Gases under pressure
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Disclaimer with regard to REACH:
The information provided in this Safety Data Sheet is consistent with the information in the Chemical Safety Report, as far as this information was available at the time of compilation (see last revision date).

Disclaimer:
The information of this Safety Data Sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.