

# Metal Finish

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
 First edition: 16/04/2007 Last revision: 24/06/2024 Supersedes version of: 10/05/2023 Version: 9.0

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

#### 1.1. Product identifier

Product form : Mixture  
 Name : Metal Finish  
 Product number : 02.3106.1080

#### 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 : Metallic grey spray paint of OEM quality. Provides the treated surface with a perfect imitation of the most frequent metallic colours.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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 Schans 4  
 BE - 2480 Dessel  
 T.: +32 (0) 14 32 60 01  
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 hse@innotec.eu

Distributor:  
 Innotec Supplies Ltd.  
 Unit 25 Glenmore Business Park,  
 Telford RD  
 UK - SP2 7GL Salisbury, Wiltshire  
 T.: +44 (0)1722411744  
 F.: +44 (0)1722411788  
 info@innotecworld.com

#### 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
STOT SE 3	H336
Aquatic Chronic 3	H412

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Contains : Acetone; Hydrocarbons, C9, aromates; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromates

Hazard statements (CLP) : H222 - Extremely flammable aerosol.  
 H229 - Pressurised container: May burst if heated.

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Precautionary statements (CLP)	H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H412 - Harmful to aquatic life with long lasting effects. : 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 spray. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves, face protection. 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.
Extra phrases	: Without adequate ventilation formation of explosive mixtures may be possible.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  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 substance(s) are 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 REACH-no: 01-2119471330-49	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Dimethyl ether	CAS number: 115-10-6 EINECS / ELINCS number: 204-065-8 REACH-no: 01-2119472128-37	20 – 25	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Propane	CAS number: 74-98-6 EINECS / ELINCS number: 200-827-9 REACH-no: 01-2119486944-21	5 – 10	Flam. Gas 1A, H220 Press. Gas
Butane (Contains < 0,1% butadiene (203-450-8))	CAS number: 106-97-8 EINECS / ELINCS number: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	5 – 10	Flam. Gas 1A, H220 Press. Gas
Isobutane (Contains < 0,1% butadiene (203-450-8))	CAS number: 75-28-5 EINECS / ELINCS number: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	5 – 10	Flam. Gas 1A, H220 Press. Gas
Hydrocarbons, C9, aromates	EINECS / ELINCS number: 918-668-5 REACH-no: 01-2119455851-35	2,5 – 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Titanium oxide	CAS number: 13463-67-7 EINECS / ELINCS number: 236-675-5 REACH-no: 01-2119489379-17	2,5 – 5	Carc. 2, H351

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Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
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 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromates	EINECS / ELINCS number: 919-857-5 REACH-no: 01-2119463258-33	2,5 – 5	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
Aluminium powder (stabilised)	CAS number: 7429-90-5 EINECS / ELINCS number: 231-072-3 EC Index-No.: 013-002-00-1 REACH-no: 01-2119529243-45	< 2,5	Water-react. 2, H261 Flam. Sol. 1, H228
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% Aromates, Benzene < 0,1%	EINECS / ELINCS number: 918-481-9 REACH-no: 01-2119457273-39	< 2,5	Asp. Tox. 1, H304

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice	: If you feel unwell, seek medical advice.
Inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
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	: Move to fresh air. Drink plenty of water. Get medical advice/attention.

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

Inhalation	: May cause drowsiness or dizziness.
Skin contact	: Repeated exposure may cause skin dryness or cracking.
Eyes contact	: Causes serious eye irritation.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Water spray. Dry powder. Alcohol resistant foam.
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.
Hazardous decomposition products in case of fire	: Toxic gases.

#### 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.

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### 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.  
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. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. In use, may form flammable vapour-air mixture.  
Precautions for safe handling : Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Provide good ventilation in process area to prevent formation of vapour. 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 : Do not expose to temperatures exceeding 50 °C. Keep in fireproof place. Smoking is forbidden. Protect from sunlight. Store in a well-ventilated place. Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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. Store under dry conditions. Keep only in original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Dimethyl ether (115-10-6)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Dimethylether
IOEL TWA	1920 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Dimethyl ether
WEL TWA (OEL TWA)	766 mg/m <sup>3</sup>
	400 ppm
WEL STEL (OEL STEL)	958 mg/m <sup>3</sup>
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Butane (106-97-8)	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Butane
WEL TWA (OEL TWA)	1450 mg/m <sup>3</sup>

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Butane (106-97-8)	
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m <sup>3</sup> 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/m <sup>3</sup> 500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Acetone
WEL TWA (OEL TWA)	1210 mg/m <sup>3</sup> 500 ppm
WEL STEL (OEL STEL)	3620 mg/m <sup>3</sup> 1500 ppm
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)	10 mg/m <sup>3</sup> total inhalable 4 mg/m <sup>3</sup> respirable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Aluminium powder (stabilised) (7429-90-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Aluminium metal
WEL TWA (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m <sup>3</sup> 50 ppm
IOEL STEL	442 mg/m <sup>3</sup> 100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Xylene, o-,m-,p- or mixed isomers
WEL TWA (OEL TWA)	220 mg/m <sup>3</sup> 50 ppm
WEL STEL (OEL STEL)	441 mg/m <sup>3</sup>

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Xylene (1330-20-7)	
	100 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), BMGV (Biological monitoring guidance values are listed in Table 2)
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 additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional 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:

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

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear security glasses which protect from splashes

#### 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: Butyl 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

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### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: 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	: 2,6 – 26,2 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 available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Water: Not miscible or difficult to mix.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 4000 hPa
Vapour pressure at 20 °C	: Not available
Density	: Not available
Relative density (water = 1)	: 0,8 (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 : 2,6 – 26,2 vol %

#### 9.2.2. Other safety characteristics

V.O.C. (V.O.S.) : 644,6 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 additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional 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
Additional information	: Based on available data, the classification criteria are not met

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<b>Dimethyl ether (115-10-6)</b>	
LC50/inhalation/4h/rat	309 mg/m <sup>3</sup>
<b>Butane (106-97-8)</b>	
LC50/inhalation/4h/rat	658000 mg/mg <sup>3</sup>
<b>Acetone (67-64-1)</b>	
LD50/oral/rat	5800 mg/kg
LD50/dermal/rabbit	> 15800 mg/kg
LC50/inhalation/4h/rat	76 mg/m <sup>3</sup>
<b>Hydrocarbons, C9, aromates</b>	
LD50/oral/rat	3492 mg/kg
LD50/dermal/rabbit	3160 mg/kg
LC50/inhalation/4h/rat	≥ 50 mg/l
<b>Titanium oxide (13463-67-7)</b>	
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
<b>Xylene (1330-20-7)</b>	
LD50/oral/rat	3523 mg/kg
LD50/dermal/rabbit	2000 mg/kg
LC50/inhalation/4h/rat	22,1 mg/l/4h
<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt;2% aromates</b>	
LD50/oral/rat	≥ 5000 mg/kg
LD50/dermal/rabbit	≥ 5000 mg/kg
LC50/inhalation/4h/rat	≥ 50 mg/l
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% Aromates, Benzene &lt; 0,1%</b>	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 5000 mg/kg
LC50/inhalation/4h/rat	> 4951 mg/l
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
<b>Acetone (67-64-1)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Hydrocarbons, C9, aromates</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.



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### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromates

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

No additional 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) : Harmful to aquatic life with long lasting effects.

### Dimethyl ether (115-10-6)

LC50 - Fish [2]	4600 – 10000 mg/l 96h
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EC50 96h - Algae [1]	155 mg/l
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### Acetone (67-64-1)

LC50/96h/fish	8300 mg/l
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LC50 - Other aquatic organisms [1]	2262 mg/l (48h, Daphnia magna)
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EC50 - Other aquatic organisms [1]	8450 mg/l (48h, crustacean (water flea))
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EC50 96h - Algae [1]	7200 mg/l
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### Titanium oxide (13463-67-7)

LC50/96h/fish	> 1000 mg/l
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LC50 - Fish [2]	> 10000 mg/l
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EC50/24h/daphnia magna	2 mg/l
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EC50 - Other aquatic organisms [1]	> 10000 mg/l
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EC50 - Other aquatic organisms [2]	61 mg/l
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NOEC (chronic)	0,01 mg/l rat
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NOEC chronic algae	56000 mg/l
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### Xylene (1330-20-7)

LC50/96h/fish	13,5 mg/l
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EC50/48h/daphnia magna	7,4 mg/l
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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Other adverse effects : Harmful for fish.

Additional information : Avoid release to the environment. Danger to drinking water, even if small amounts leak into the subsoil. Harmful to aquatic organisms.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

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Waste / unused products : Should not be landfilled with household waste. Avoid release to the environment.  
European List of Waste (LoW, EC 2000/532) : 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 : No  
Marine pollutant : No  
Further information : No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR) : 5F  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E0  
Transport category (ADR) : 2  
Tunnel restriction code : D

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### 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.) : 644,6 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 additional 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
	Last revision	Modified	
	Supersedes	Modified	
2.2	EUH-statements	Modified	
3	Composition/information on ingredients	Modified	
9.2	V.O.C. (V.O.S.)	Modified	
11.1	Additional information	Added	

# Metal Finish

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes			
Section	Changed item	Change	Comments
11.1	Additional information	Added	
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11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
11.1	Additional information	Added	
15.1	V.O.C. (V.O.S.)	Modified	

Abbreviations and acronyms:	
	ADR = Accord européen sur le transport des marchandises dangereuses par Route
	ACGIH = American Conference of Governmental Industrial Hygienists
	ATE = Acute Toxicity Estimate
	CAS = Chemical Abstracts Service
	CLP = Classification, labelling and packaging
	CSR = Chemical Safety Report
	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
	PNEC = Predicted No-Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	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

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Abbreviations and acronyms:	
	STOT SE = specific target organ toxicity single exposure
	SVHC = Substance of Very High Concern
	TLV = Threshold Limit Value
	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
	VOC = Volatile Organic Compounds
	WGK = Wassergefährdungsklasse
	vPvB = very Persistent and very Bioaccumulative

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aerosol 1	Aerosol, 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. 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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H261	In contact with water releases flammable gases.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

# Metal Finish

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Full text of H- and EUH-statements:	
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2

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.