

Silver Metal Paint - Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

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

1.1. Product identifier

Product Name: Silver Metal Paint
Product Code: 237008
UFI: U000-A0PG-V008-28SV

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

Identified uses Paint.
Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier	T.I Midwood & Co. Ltd TIMCO House Green Lane Wardle Nantwich CW5 6BJ	T.I Midwood & Co. Ltd Aviemore House Hill Street Monahan Ireland
Emergency Telephone:	01865 407333 (24 hour service)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336 STOT RE 2 - H373
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements EUH208 Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.
 H222 Extremely flammable aerosol.
 H229 Pressurised container: may burst if heated.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.

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Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing vapour/ spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

Acetone, Xylene (mixture of isomers)

Supplementary precautionary statements

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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTRE/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/ container in accordance with local regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Acetone			30- < 60%
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX	
EUH066			

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319
STOT SE 3 - H336

Petroleum gases, liquefied			10 - <30%
CAS number: 68476-85-7	EC number: 270-704-2		
Classification Flam. Gas 1A - H220 Press. Gas (Liq.) - H280			

Dimethyl ether			10 - <30%
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-XXXX	
Classification Press. Gas (Liq.) - H280			

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Xylene (mixture of isomers) CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-2119488216-32-XXXX	10 - <30%
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304	
Ethylbenzene CAS number: 100-41-4 EC number: 202-849-4	1 - <5%
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412	
Hydrocarbons, C9, aromatics CAS number: — EC number: 918-668-5 REACH registration number: 01-2119455851-35-XXXX EUH066	1 - <5%
Classification Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
Propan-2-ol CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01-2119457558-25-XXXX	1 - <5%
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	

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Aluminium powder (stabilised) <1% CAS number: 7429-90-5 EC number: 231-072-3 REACH registration number: 01-2119529243-45-XXXX
Classification Flam. Sol. 1 - H228 Water-react. 2 - H261
Ethylbenzene <1% CAS number: 100-41-4 EC number: 202-849-4 REACH registration number: 01-2119489370-35-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
4-morpholinecarbaldehyde <1% CAS number: 4394-85-8 EC number: 224-518-3
Classification Skin Sens. 1 - H317
Styrene <1% CAS number: 100-42-5 EC number: 202-851-5 REACH registration number: 01-2119457861-32-XXXX
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H335 STOT RE 1 - H372 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
Propane-1,2-diol <1% CAS number: 57-55-6 EC number: 200-338-0 REACH registration number: 01-2119456809-23-XXXX
Classification Not Classified

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Phthalic anhydride <1% CAS number: 85-44-9 EC number: 201-607-5 REACH registration number: 01-2119457017-41-XXXX
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335
2-methoxy-1-methylethyl acetate <1% CAS number: 108-65-6 EC number: 203-603-9 REACH registration number: 01-2119475791-29-XXXX
Classification Flam. Liq. 3 - H226
Quartz (SiO₂) <1% CAS number: 14808-60-7 EC number: 238-878-4
Classification Not Classified
n-butyl acetate <1% CAS number: 123-86-4 EC number: 204-658-1 REACH registration number: 01-2119485493-29-XXXX EUH066
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336
(2-methoxymethylethoxy)propanol <1% CAS number: 34590-94-8 EC number: 252-104-2 REACH registration number: 01-2119450011-60-XXXX
Classification Not Classified

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2-methylpropan-1-ol <1% CAS number: 78-83-1 EC number: 201-148-0 REACH registration number: 01-2119484609-23-XXXX
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride <1% CAS number: 478945-46-9 EC number: 610-388-9
Classification Acute Tox. 3 - H301 Skin Sens. 1 - H317 STOT RE 2 - H373 Aquatic Chronic 3 - H412
Toluene <1% CAS number: 108-88-3 EC number: 203-625-9
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. If in doubt, get medical attention promptly. Due to the small packaging, the risk of ingestion is minimal. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Remove contamination with soap and water or recognised skin cleansing agent.

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Eye contact Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Spray/mists may cause respiratory tract irritation.

Ingestion Due to the physical nature of this product, it is unlikely that ingestion will occur.

Skin contact Repeated exposure may cause skin dryness or cracking.

Eye contact Vapour or spray in the eyes may cause irritation and smarting. Particles in the eyes may cause irritation and smarting.

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

Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Take precautionary measures against static discharges.

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6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Provide adequate ventilation. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. The product is flammable. Avoid exposing aerosol containers to high temperatures or direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Do not expose to temperatures exceeding 50°C/122°F. Avoid inhalation of vapours and spray/mists. Avoid contact with eyes.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented. Wash contaminated skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep away from oxidising materials, heat and flames. Store in a cool and well-ventilated place. Protect from sunlight. Keep containers upright. Protect containers from damage. Do not expose to temperatures exceeding 50°C/122°F. Do not store near heat sources or expose to high temperatures. Store in accordance with national regulations.

Storage class Chemical storage. Aerosol containers and lighters

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Acetone

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

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Petroleum gases, liquefied

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

Dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m³

Xylene (mixture of isomers)

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

Ethylbenzene

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

Aluminium powder (stabilised)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Ethylbenzene

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

Styrene

Long-term exposure limit (8-hour TWA): WEL 100 ppm 430 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 1080 mg/m³

Propane-1,2-diol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Phthalic anhydride

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³

Short-term exposure limit (15-minute): WEL 12 mg/m³

Sen

2-methoxy-1-methylethyl acetate

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³

Sk

Quartz (SiO₂)

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³ respirable dust

n-butyl acetate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

(2-methoxymethylethoxy)propanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

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2-methylpropan-1-ol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m³

Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

Iron(1+), chloro[dimethyl 9,9-dihydroxy-3-methyl-2,4-di(2-pyridinyl-kN)-7-[(2-pyridinyl-kN)methyl]-3,7-diazabicyclo[3.3.1]nonane-1,5-dicarboxylate-kN3,kN7]-, chloride

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

as Fe

Toluene

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Sen = Capable of causing occupational asthma.

Acetone (CAS: 67-64-1)

DNEL	Workers - Inhalation; Long term systemic effects: 1210 mg/m ³ Workers - Inhalation; Short term systemic effects: 2420 mg/m ³ Workers - Dermal; Long term systemic effects: 186 mg/kg/day General population - Inhalation; Long term systemic effects: 200 mg/m ³ General population - Dermal; Long term systemic effects: 62 mg/kg/day General population - Oral; Long term systemic effects: 62 mg/kg/day
PNEC	- Fresh water; 10.6 mg/l - marine water; 1.06 mg/l - STP; 100 mg/l - Sediment (Freshwater); 30.4 mg/kg - Sediment (Marinewater); 3.04 mg/kg - Soil; 29.5 mg/kg

Dimethyl ether (CAS: 115-10-6)

DNEL	Workers - Inhalation; Long term systemic effects: 1894 mg/m ³ General population - Inhalation; Long term systemic effects: 471 mg/m ³
PNEC	- Fresh water; 0.155 mg/l - marine water; 0.016 mg/l - STP; 160 mg/l - Sediment (Freshwater); 0.681 mg/kg - Sediment (Marinewater); 0.069 mg/kg - Soil; 0.045 mg/kg

Xylene (mixture of isomers) (CAS: 1330-20-7)

DNEL	Workers - Inhalation; Long term systemic effects: 77 mg/m ³ Workers - Inhalation; Short term systemic effects: 289 mg/m ³ Workers - Inhalation; Short term local effects: 289 mg/m ³ Workers - Dermal; Long term systemic effects: 180 mg/kg/day General population - Inhalation; Long term systemic effects: 14.8 mg/m ³ General population - Dermal; Long term systemic effects: 108 mg/kg/day General population - Oral; Long term systemic effects: 1.6 mg/kg/day
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PNEC

- Fresh water; 0.327 mg/l
- marine water; 0.327 mg/l
- STP; 6.58 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg

Hydrocarbons, C9, aromatics

DNEL

- Workers - Inhalation; Long term systemic effects: 150 mg/m³
- Workers - Dermal; Long term systemic effects: 25 mg/kg/day
- General population - Inhalation; Long term systemic effects: 32 mg/m³
- General population - Dermal; Long term systemic effects: 11 mg/kg/day
- General population - Oral; Long term systemic effects: 11 mg/kg/day

Paraffin waxes and Hydrocarbon waxes, chloro (CAS: 63449-39-8)

DNEL

- Workers - Inhalation; Long term systemic effects: 63.5 mg/m³
- Workers - Dermal; Long term systemic effects: 450 mg/kg/day
- General population - Dermal; Long term systemic effects: 225 mg/kg/day
- General population - Oral; Long term systemic effects: 4.5 mg/kg/day

PNEC

- Fresh water; 0.003 mg/l
- marine water; 0.001 mg/l
- STP; 60 mg/l
- Soil; 4640 mg/kg

Propan-2-ol (CAS: 67-63-0)

DNEL

- Workers - Inhalation; Long term systemic effects: 500 mg/m³
- Workers - Dermal; Long term systemic effects: 888 mg/kg/day
- General population - Inhalation; Long term systemic effects: 89 mg/m³
- General population - Dermal; Long term systemic effects: 319 mg/kg/day
- General population - Oral; Long term systemic effects: 26 mg/kg/day

PNEC

- Fresh water; 140.9 mg/l
- marine water; 140.9 mg/l
- STP; 2251 mg/l
- Sediment (Freshwater); 552 mg/kg
- Sediment (Marinewater); 552 mg/kg
- Soil; 28 mg/kg
- Oral; 160 mg/kg

Aluminium powder (stabilised) (CAS: 7429-90-5)

DNEL

- Workers - Inhalation; Long term systemic effects: 3.72 mg/m³
- Workers - Inhalation; Long term local effects: 3.72 mg/m³
- General population - Oral; Long term systemic effects: 7.9 mg/kg/day

PNEC

- STP; 20 mg/l

Ethylbenzene (CAS: 100-41-4)

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DNEL
Workers - Inhalation; Long term systemic effects: 77 mg/m³
Workers - Inhalation; Short term local effects: 293 mg/m³
Workers - Dermal; Long term systemic effects: 180 mg/kg/day
General population - Inhalation; Long term systemic effects: 15 mg/m³
General population - Oral; Long term systemic effects: 1.6 mg/kg/day

PNEC
- Fresh water; 0.1 mg/l
- marine water; 0.01 mg/l
- STP; 9.6 mg/l
- Sediment (Freshwater); 13.7 mg/kg
- Sediment (Marinewater); 1.37 mg/kg
- Soil; 2.68 mg/kg
- Oral; 0.02 g/kg

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS: 64742-48-9)

DNEL
Workers - Inhalation; Long term systemic effects: 1500 mg/m³
Workers - Dermal; Long term systemic effects: 300 mg/kg/day
General population - Inhalation; Long term systemic effects: 900 mg/m³
General population - Dermal; Long term systemic effects: 300 mg/kg/day
General population - Oral; Long term systemic effects: 300 mg/kg/day

Styrene (CAS: 100-42-5)

DNEL
Workers - Inhalation; Long term systemic effects: 85 mg/m³
Workers - Inhalation; Short term systemic effects: 289 mg/m³
Workers - Inhalation; Short term local effects: 306 mg/m³
Workers - Dermal; Long term systemic effects: 406 mg/kg/day
General population - Inhalation; Long term systemic effects: 10.2 mg/m³
General population - Inhalation; Short term systemic effects: 174.25 mg/m³
General population - Inhalation; Short term local effects: 182.75 mg/m³
General population - Dermal; Long term systemic effects: 343 mg/kg/day
General population - Oral; Long term systemic effects: 2.1 mg/kg/day

PNEC
- Fresh water; 0.028 mg/l
- marine water; 0.014 mg/l
- STP; 5 mg/l
- Sediment (Freshwater); 0.614 mg/kg
- Sediment (Marinewater); 0.307 mg/kg
- Soil; 0.2 mg/kg

Propane-1,2-diol (CAS: 57-55-6)

DNEL
Workers - Inhalation; Long term systemic effects: 168 mg/m³
Workers - Inhalation; Long term local effects: 10 mg/m³
General population - Inhalation; Long term systemic effects: 50 mg/m³
General population - Inhalation; Long term local effects: 10 mg/m³

PNEC
- Fresh water; 260 mg/l
- marine water; 26 mg/l
- STP; 20000 mg/l
- Sediment (Freshwater); 572 mg/kg
- Sediment (Marinewater); 57.2 mg/kg
- Soil; 50 mg/kg

Phthalic anhydride (CAS: 85-44-9)

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DNEL
Workers - Inhalation; Long term systemic effects: 32.2 mg/m³
Workers - Dermal; Long term systemic effects: 10 mg/kg/day
General population - Inhalation; Long term systemic effects: 8.6 mg/m³
General population - Dermal; Long term systemic effects: 5 mg/kg/day
General population - Oral; Long term systemic effects: 5 mg/kg/day

PNEC
- Fresh water; 1 mg/l
- marine water; 0.1 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 3.8 mg/kg
- Sediment (Marinewater); 0.38 mg/kg
- Soil; 0.173 mg/kg

2-butanone oxime (CAS: 96-29-7)

DNEL
Workers - Inhalation; Long term systemic effects: 9 mg/m³
Workers - Inhalation; Long term local effects: 3.33 mg/m³
Workers - Dermal; Long term systemic effects: 1.3 mg/kg/day
Workers - Dermal; Short term systemic effects: 2.5 mg/kg/day
General population - Inhalation; Long term systemic effects: 2.7 mg/m³
General population - Inhalation; Long term local effects: 2 mg/m³
General population - Dermal; Long term systemic effects: 0.78 mg/kg/day
General population - Dermal; Short term systemic effects: 1.5 mg/kg/day

PNEC
- Fresh water; 0.256 mg/l
- STP; 177 mg/l

2-methoxy-1-methylethyl acetate (CAS: 108-65-6)

DNEL
Workers - Inhalation; Long term systemic effects: 275 mg/m³
Workers - Inhalation; Long term local effects: 550 mg/m³
Workers - Dermal; Long term systemic effects: 796 mg/kg/day
General population - Inhalation; Long term systemic effects: 33 mg/m³
General population - Inhalation; Long term local effects: 33 mg/m³
General population - Dermal; Long term systemic effects: 320 mg/kg/day
General population - Oral; Long term systemic effects: 36 mg/kg/day

PNEC
- Fresh water; 0.635 mg/l
- marine water; 0.064 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 3.29 mg/kg
- Sediment (Marinewater); 0.329 mg/kg
- Soil; 0.29 mg/kg

n-butyl acetate (CAS: 123-86-4)

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DNEL

Workers - Inhalation; Long term systemic effects: 300 mg/m³
Workers - Inhalation; Short term systemic effects: 600 mg/m³
Workers - Inhalation; Long term local effects: 300 mg/m³
Workers - Inhalation; Short term local effects: 600 mg/m³
Workers - Dermal; Long term systemic effects: 11 mg/kg/day
Workers - Dermal; Short term systemic effects: 11 mg/kg/day
General population - Inhalation; Long term systemic effects: 35.7 mg/m³
General population - Inhalation; Short term systemic effects: 300 mg/m³
General population - Inhalation; Long term local effects: 35.7 mg/m³
General population - Inhalation; Short term local effects: 300 mg/m³
General population - Dermal; Long term systemic effects: 6 mg/kg/day
General population - Dermal; Short term systemic effects: 6 mg/kg/day
General population - Oral; Long term systemic effects: 2 mg/kg/day
General population - Oral; Short term systemic effects: 2 mg/kg/day

PNEC

- Fresh water; 0.18 mg/l
- marine water; 0.018 mg/l
- STP; 35.6 mg/l
- Sediment (Freshwater); 0.981 mg/kg
- Sediment (Marinewater); 0.098 mg/kg
- Soil; 0.09 mg/kg

Lithium chloride (CAS: 7447-41-8)

DNEL

Workers - Inhalation; Long term systemic effects: 10 mg/m³
Workers - Inhalation; Short term systemic effects: 30 mg/m³
Workers - Dermal; Long term systemic effects: 73.2 mg/kg/day
Workers - Dermal; Short term systemic effects: 100 mg/kg/day
General population - Inhalation; Long term systemic effects: 10 mg/m³
General population - Inhalation; Short term systemic effects: 30 mg/m³
General population - Dermal; Long term systemic effects: 73.2 mg/kg/day
General population - Dermal; Short term systemic effects: 50 mg/kg/day
General population - Oral; Long term systemic effects: 7.32 mg/kg/day
General population - Oral; Short term systemic effects: 21.96 mg/kg/day

PNEC

- Fresh water; 10.4 mg/l
- marine water; 1.04 mg/l
- Intermittent release; 10.4 mg/l
- STP; 140.2 mg/l
- Sediment (Freshwater); 49.9 mg/kg
- Sediment (Marinewater); 4.99 mg/kg
- Soil; 4.13 mg/kg

(2-methoxymethylethoxy)propanol (CAS: 34590-94-8)

DNEL

Workers - Inhalation; Long term systemic effects: 308 mg/m³
Workers - Dermal; Long term systemic effects: 283 mg/kg/day
General population - Inhalation; Long term systemic effects: 37.2 mg/m³
General population - Dermal; Long term systemic effects: 121 mg/kg/day
General population - Oral; Long term systemic effects: 36 mg/kg/day

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According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

PNEC	- Fresh water; 19 mg/l - marine water; 1.9 mg/l - STP; 4168 mg/l - Sediment (Freshwater); 70.2 mg/l - Sediment (Marinewater); 7.02 mg/kg - Soil; 2.74 mg/kg
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2-methylpropan-1-ol (CAS: 78-83-1)

DNEL	Workers - Inhalation; Long term local effects: 310 mg/m ³ General population - Inhalation; Long term local effects: 55 mg/m ³
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PNEC	- Fresh water; 0.4 mg/l - Intermittent release; 11 mg/l - marine water; 0.04 mg/l - STP; 10 mg/l - Sediment (Freshwater); 1.56 mg/kg - Sediment (Marinewater); 0.156 mg/kg - Soil; 0.076 mg/kg
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
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According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

Colour	Silver.
Odour	Organic solvents.
Initial boiling point and range	-40 to -2°C (LPG/DME)
Flash point	-104°C (LPG)
Upper/lower flammability or explosive limits	1.4 - 26.2% (V) (LPG/DME)
Vapour pressure	513 - 1760kPa (LPG/DME)
Auto-ignition temperature	226°C (DME)

9.2. Other information

Volatility	Volatile.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight. Pressurised container: may burst if heated Avoid heat, flames and other sources of ignition. Avoid the following conditions: Freezing.
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10.5. Incompatible materials

Materials to avoid	No specific requirements are anticipated under normal conditions of use.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - dermal

ATE dermal (mg/kg)	8,441.97
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Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	75.36
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Inhalation	Gas or vapour may irritate the respiratory system. May cause nausea, headache, dizziness and intoxication. Vapour may irritate respiratory system/lungs.
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Silver Metal Paint - Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

Ingestion	Due to the physical nature of this product, it is unlikely that ingestion will occur. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause chemical burns in mouth, oesophagus and stomach. May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause eye irritation. May cause serious eye damage.
Route of exposure	Inhalation Ingestion Skin and/or eye contact

SECTION 12: Ecological information

12.1. Toxicity

Toxicity The product is not believed to present a hazard due to its physical nature.

12.2. Persistence and degradability

Persistence and degradability Volatile substances are degraded in the atmosphere within a few days. The other substances in the product are not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product. Exposure to aquatic environment unlikely.

12.4. Mobility in soil

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product hardens to a solid, immobile substance.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste product or used containers in accordance with local regulations

Disposal methods Do not empty into drains. Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

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According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

UN No. (ICAO) 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ICAO packing group None

ADN packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

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According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
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Classification abbreviations and acronyms	Aerosol = Aerosol
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Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/
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Classification procedures according to Regulation (EC) 1272/2008	Aerosol 1 - H222, H229: : Expert judgement.
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Silver Metal Paint - Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830

Hazard statements in full	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. H301 Toxic if swallowed. 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. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Hearing organs) through prolonged or repeated exposure. H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Central nervous system, Liver, Kidneys) through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.
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