

# Black Metal Paint - Safety Data Sheet

According to Regulation (EC) No 1907/1806, 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:** Black Metal Paint  
**Product Code:** 237006  
**UFI:** ROD5-PP5E-M00A-RAOX

### 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** Eye Irrit. 2 - H319 STOT SE 3 - H336  
**Environmental hazards** Not Classified

### 2.2. Label elements

#### Hazard pictograms



**Signal word** Danger

**Hazard statements** H222 Extremely flammable aerosol.  
 H229 Pressurised container: may burst if heated.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

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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.  
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.  
P501 Dispose of contents/ container in accordance with local regulations.

**Supplemental label information**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Contains**

Acetone

**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.  
P264 Wash contaminated skin thoroughly after handling.  
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.

## 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

<b>Acetone</b>			<b>30- &lt; 60%</b>
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX	
EUH066			
<b>Classification</b>			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			
<b>Dimethyl ether</b>			<b>10 - &lt;30%</b>
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-XXXX	
<b>Classification</b>			
Press. Gas (Liq.) - H280			
<b>Petroleum gases, liquefied</b>			<b>10 - &lt;30%</b>
CAS number: 68476-85-7	EC number: 270-704-2		
<b>Classification</b>			
Flam. Gas 1A - H220			
Press. Gas (Liq.) - H280			

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<b>Xylene (mixture of isomers)</b>	<b>5 - &lt;10%</b>	
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX
<b>Classification</b> 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		
<b>2-methoxy-1-methylethyl acetate</b>	<b>1 - &lt;5%</b>	
CAS number: 108-65-6	EC number: 203-603-9	
<b>Classification</b> Flam. Liq. 3 - H226		
<b>Solvent naphtha (petroleum), light arom.</b>	<b>1 - &lt;5%</b>	
CAS number: 64742-95-6	EC number: 265-199-0	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
<b>Ethylbenzene</b>	<b>&lt;1%</b>	
CAS number: 100-41-4	EC number: 202-849-4	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		

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<b>Ethylbenzene</b> <span style="float: right;">&lt;1%</span> CAS number: 100-41-4                      EC number: 202-849-4                      REACH registration number: 01-2119489370-35-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412
<b>Styrene</b> <span style="float: right;">&lt;1%</span> CAS number: 100-42-5                      EC number: 202-851-5                      REACH registration number: 01-2119457861-32-XXXX
<b>Classification</b> 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
<b>Propane-1,2-diol</b> <span style="float: right;">&lt;1%</span> CAS number: 57-55-6                      EC number: 200-338-0                      REACH registration number: 01-2119456809-23-XXXX
<b>Classification</b> Not Classified
<b>Phthalic anhydride</b> <span style="float: right;">&lt;1%</span> CAS number: 85-44-9                      EC number: 201-607-5                      REACH registration number: 01-2119457017-41-XXXX
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335

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<b>(2-methoxymethylethoxy)propanol</b> <1% CAS number: 34590-94-8      EC number: 252-104-2      REACH registration number: 01-2119450011-60-XXXX
<b>Classification</b> Not Classified
<b>2-methylpropan-1-ol</b> <1% CAS number: 78-83-1      EC number: 201-148-0      REACH registration number: 01-2119484609-23-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336
<b>2-methoxy-1-methylethyl acetate</b> <1% CAS number: 108-65-6      EC number: 203-603-9      REACH registration number: 01-2119475791-29-XXXX
<b>Classification</b> Flam. Liq. 3 - H226
<b>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</b> <1% CAS number: 478945-46-9      EC number: 610-388-9
<b>Classification</b> Acute Tox. 3 - H301 Skin Sens. 1 - H317 STOT RE 2 - H373 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

<b>General information</b>	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.

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<b>Skin contact</b>	Remove contamination with soap and water or recognised skin cleansing agent.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	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

<b>Specific treatments</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	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.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	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

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**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.

## 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

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## Occupational exposure limits

### **Acetone**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

### **Dimethyl ether**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

### **Petroleum gases, liquefied**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

### **Xylene (mixture of isomers)**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

### **2-methoxy-1-methylethyl acetate**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m<sup>3</sup>

Sk

### **Ethylbenzene**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup>

Sk

### **Ethylbenzene**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup>

Sk

### **Styrene**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 430 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 1080 mg/m<sup>3</sup>

### **Propane-1,2-diol**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m<sup>3</sup> total vapour and particulates

### **Phthalic anhydride**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 12 mg/m<sup>3</sup>

Sen

### **(2-methoxymethylethoxy)propanol**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m<sup>3</sup>

Sk

### **2-methylpropan-1-ol**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m<sup>3</sup>

### **2-methoxy-1-methylethyl acetate**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m<sup>3</sup>

Sk



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**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/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

as Fe

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Sen = Capable of causing occupational asthma.

## Acetone (CAS: 67-64-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 1210 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 2420 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 186 mg/kg/day General population - Inhalation; Long term systemic effects: 200 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 62 mg/kg/day General population - Oral; Long term systemic effects: 62 mg/kg/day
<b>PNEC</b>	- 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)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 1894 mg/m <sup>3</sup> General population - Inhalation; Long term systemic effects: 471 mg/m <sup>3</sup>
<b>PNEC</b>	- 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)

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

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

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**DNEL** Workers - Inhalation; Long term systemic effects: 63.5 mg/m<sup>3</sup>  
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

## Ethylbenzene (CAS: 100-41-4)

**DNEL** Workers - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 293 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 180 mg/kg/day  
General population - Inhalation; Long term systemic effects: 15 mg/m<sup>3</sup>  
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

## 2-(2-ethoxyethoxy)ethanol (CAS: 111-90-0)

**DNEL** Workers - Inhalation; Long term systemic effects: 61 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 30 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 83 mg/kg/day  
General population - Inhalation; Long term systemic effects: 37 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 25 mg/kg/day  
General population - Oral; Long term systemic effects: 50 mg/kg/day

**PNEC** - Fresh water; 1.98 mg/l  
- marine water; 0.198 mg/l  
- STP; 500 mg/l  
- Sediment (Freshwater); 7.32 mg/kg  
- Sediment (Marinewater); 0.732 mg/kg  
- Soil; 0.34 mg/kg  
- Oral; 444 mg/kg

## Styrene (CAS: 100-42-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 85 mg/m<sup>3</sup>  
Workers - Inhalation; Short term systemic effects: 289 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 306 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 406 mg/kg/day  
General population - Inhalation; Long term systemic effects: 10.2 mg/m<sup>3</sup>  
General population - Inhalation; Short term systemic effects: 174.25 mg/m<sup>3</sup>  
General population - Inhalation; Short term local effects: 182.75 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 343 mg/kg/day  
General population - Oral; Long term systemic effects: 2.1 mg/kg/day

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- 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/m<sup>3</sup>
  - Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>
  - General population - Inhalation; Long term systemic effects: 50 mg/m<sup>3</sup>
  - General population - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>

- 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)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 32.2 mg/m<sup>3</sup>
  - Workers - Dermal; Long term systemic effects: 10 mg/kg/day
  - General population - Inhalation; Long term systemic effects: 8.6 mg/m<sup>3</sup>
  - 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/m<sup>3</sup>
  - Workers - Inhalation; Long term local effects: 3.33 mg/m<sup>3</sup>
  - 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/m<sup>3</sup>
  - General population - Inhalation; Long term local effects: 2 mg/m<sup>3</sup>
  - 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

## Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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**DNEL**  
Workers - Inhalation; Long term systemic effects: 330 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 44 mg/kg/day  
General population - Inhalation; Long term systemic effects: 71 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 26 mg/kg/day  
General population - Oral; Long term systemic effects: 26 mg/kg/day

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

**DNEL**  
Workers - Inhalation; Long term systemic effects: 308 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 283 mg/kg/day  
General population - Inhalation; Long term systemic effects: 37.2 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 121 mg/kg/day  
General population - Oral; Long term systemic effects: 36 mg/kg/day

**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

## 2-methylpropan-1-ol (CAS: 78-83-1)

**DNEL**  
Workers - Inhalation; Long term local effects: 310 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 55 mg/m<sup>3</sup>

**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

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

**DNEL**  
Workers - Inhalation; Long term systemic effects: 275 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 550 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 796 mg/kg/day  
General population - Inhalation; Long term systemic effects: 33 mg/m<sup>3</sup>  
General population - Inhalation; Long term local effects: 33 mg/m<sup>3</sup>  
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

## Oct-1-ene (CAS: 111-66-0)

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## PNEC

- Fresh water; 0.012 mg/l
- marine water; 0.012 mg/l
- Sediment (Freshwater); 6.06 mg/kg
- Sediment (Marinewater); 6.06 mg/kg
- Soil; 1.25 mg/kg

## 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.
Colour	Black.
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

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**Volatility** Volatile.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** See the other subsections of this section for further details.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react strongly with the product: Oxidising agents.

### 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.

### 10.5. Incompatible materials

**Materials to avoid** No specific requirements are anticipated under normal conditions of use.

### 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.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 13,441.44

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 134.41

**Inhalation** Gas or vapour may irritate the respiratory system. May cause nausea, headache, dizziness and intoxication. Vapour may irritate respiratory system/lungs.

**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

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**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

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

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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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	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).
<b>EU legislation</b>	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.



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## 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<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.

**Classification abbreviations and acronyms**

Aerosol = Aerosol

**Key literature references and sources for data**

Source: European Chemicals Agency, <http://echa.europa.eu/>

**Classification procedures according to Regulation (EC) 1272/2008**

Aerosol 1 - H222, H229: : Expert judgement.

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<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated. 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.
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