

**SAFETY DATA SHEET****Industrial Multi Purpose Enamel Matt Black**

According to Regulation (EC) No 1907/2006, Annex II, as amended., COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** Industrial Multi Purpose Enamel Matt Black

**Product number** 440.0060101.076.28012015

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

**Identified uses** Paint.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** PlastiKote Ltd.  
675 Eskdale Road,  
Winnersh,  
Wokingham, Berkshire,  
RG41 5TS  
UK  
T: +44 (0) 844 736 2235  
sds@plasti-kote.co.uk

**1.4. Emergency telephone number**

**Emergency telephone** +44(0) 844 736 2235  
08:00 - 17:00 h (UK)

**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**

**Pictogram**



**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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<b>Precautionary statements</b>	<p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.
<b>Contains</b>	Acetone, Propan-2-ol, Naphtha (Petroleum), Hydrotreated light (<0.1% Benzene)
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p>

### 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> <span style="float: right;"><b>10-30%</b></span> CAS number: 67-64-1                      EC number: 200-662-2
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
<b>Propane</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 74-98-6                      EC number: 200-827-9
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280
<b>Butane</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 106-97-8                      EC number: 203-448-7
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280

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<b>Distillates (Petroleum), Hydrotreated light</b>	<b>5-10%</b>
CAS number: 64742-47-8                      EC number: 265-149-8	
<b>Classification</b> Asp. Tox. 1 - H304	
<b>Calcium carbonate</b>	<b>5-10%</b>
CAS number: 1317-65-3                      EC number: 215-279-6	
Substance with National workplace exposure limits.	
<b>Classification</b> Not Classified	
<b>isobutyl acetate</b>	<b>5-10%</b>
CAS number: 110-19-0                      EC number: 203-745-1	
Substance with National workplace exposure limits.	
<b>Classification</b> Flam. Liq. 2 - H225	
<b>Propan-2-ol</b>	<b>1-5%</b>
CAS number: 67-63-0                      EC number: 200-661-7	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	
<b>Solvent naphtha (Petroleum), Light aliphatic (&lt;0.1 % Benzene)</b>	<b>1-5%</b>
CAS number: 64742-89-8                      EC number: 265-192-2	
<b>Classification</b> Asp. Tox. 1 - H304	
<b>Naphtha (Petroleum), Hydrotreated light (&lt;0.1% Benzene)</b>	<b>1-5%</b>
CAS number: 64742-49-0                      EC number: 265-151-9	
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

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<b>C. I. Pigment Black 7</b>	<b>&lt;1%</b>
CAS number: 1333-86-4	EC number: 215-609-9
Substance with National workplace exposure limits.	
<b>Classification</b>	
Not Classified	
<b>Xylene</b>	<b>&lt;1%</b>
CAS number: 1330-20-7	EC number: 215-535-7
<b>Classification</b>	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
<b>Silica</b>	<b>&lt;1%</b>
CAS number: 14808-60-7	EC number: 238-878-4
<b>Classification</b>	
STOT RE 2 - H373	
<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	
<b>2-Ethylhexanoic acid, zirconium salt</b>	<b>&lt;1%</b>
CAS number: 22464-99-9	EC number: 245-018-1
<b>Classification</b>	
Repr. 2 - H361d	

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person warm and at rest. If in doubt, get medical attention promptly.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 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** Vapours may cause headache, fatigue, dizziness and nausea. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.

**Ingestion** Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause nausea, headache, dizziness and intoxication.

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

**Eye contact** Irritation of eyes and mucous membranes.

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

**Notes for the doctor** Treat symptomatically.

**Specific treatments** No specific chemical antidote is known to be required after exposure to this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with 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** Pressurised container: may burst if heated The product is extremely flammable. In use may form flammable/explosive vapour-air mixture.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water spray to reduce vapours.

**Special protective equipment for firefighters** Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid heat, flames and other sources of ignition. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Avoid inhalation of vapours/spray and contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Exposure to aquatic environment unlikely. Avoid discharge into drains.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Provide adequate ventilation. Absorb spillage with oil-absorbing material.

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### 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. 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. During application and drying, solvent vapours will be emitted. Avoid inhalation of vapours and spray/mists. Keep away from heat, sparks and open flame. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Avoid exposing aerosol containers to high temperatures or direct sunlight. Keep away from heat, sparks and open flame. Store in a cool and well-ventilated place.

### 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/m<sup>3</sup>

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

##### **Butane**

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

##### **Calcium carbonate**

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

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

##### **isobutyl acetate**

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 187 ppm 903 mg/m<sup>3</sup>

##### **Propan-2-ol**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### **C. I. Pigment Black 7**

Long-term exposure limit (8-hour TWA): WEL 3.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 7 mg/m<sup>3</sup>

##### **Xylene**

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

##### **Silica**

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup> respirable dust

##### **Ethylbenzene**

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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

### 2-Ethylhexanoic acid, zirconium salt

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

as Zr

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

## 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

Personal protective equipment for eye and face protection should comply with European Standard EN166. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

#### Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Frequent changes are recommended. 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.

#### Hygiene measures

When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove non-impervious clothing that becomes contaminated.

#### Respiratory protection

This product must not be handled in a confined space without adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Contains low-boiling liquids. Use an air-supplied respirator, if necessary. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

#### Thermal hazards

Contact with liquid form may cause frostbite.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Aerosol.
Colour	Black.
Odour	Organic solvents.
pH	Not relevant. The product is insoluble in water.
Melting point	Not available. Technically not feasible.
Initial boiling point and range	-42 °C - 0°C @ 760 mm Hg
Flash point	< -60°C CC (Closed cup).

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<b>Evaporation rate</b>	No information available. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 2 % Upper flammable/explosive limit: 10 %
<b>Vapour pressure</b>	1000 mbar @ 20°C
<b>Vapour density</b>	> 1 Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
<b>Relative density</b>	~ 0.85
<b>Solubility(ies)</b>	Immiscible with water. Soluble in the following materials: Organic solvents.
<b>Auto-ignition temperature</b>	~450°C
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	The product is extremely flammable.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.
<b><u>9.2. Other information</u></b>	
<b>Volatility</b>	Highly volatile.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable.

#### 10.4. Conditions to avoid

**Conditions to avoid** When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - dermal



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<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	May cause defatting of the skin but is not an irritant. Repeated exposure may cause skin dryness or cracking.
<b>Extreme pH</b>	Not relevant.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Central nervous system depression. Vapours may cause drowsiness and dizziness.
<b>Target organs</b>	No specific target organs known.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.
<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur. May cause nausea, headache, dizziness and intoxication.
<b>Skin contact</b>	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>Acute and chronic health hazards</b>	A single exposure may cause the following adverse effects: Drowsiness.
<b>Route of entry</b>	Inhalation Dermal

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<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	Fatigue. Headache. Coughing. Dry skin.
<b>Medical considerations</b>	Skin disorders and allergies.

### Toxicological information on ingredients.

#### Acetone

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,800.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information.

**ATE oral (mg/kg)** 5,800.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 15,800.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** REACH dossier information.

**ATE dermal (mg/kg)** 15,800.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 132.0

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** REACH dossier information.

**ATE inhalation (vapours mg/l)** 132.0

##### Skin corrosion/irritation

**Animal data** Dose: 0.01mL, 3 days, Rat Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Slightly irritating.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative. Based on available data the classification criteria are not met.

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<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOEL 79 mg/mouse/application, Dermal, Mouse Based on available data the classification criteria are not met.
<b>Target organ for carcinogenicity</b>	Not relevant.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	One-generation study - NOEL 4858 mg/kg/day, Oral, Mouse P Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEC: 2200 ppm, Inhalation, Rat Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	A single exposure may cause the following adverse effects: Drowsiness, dizziness, disorientation, vertigo.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b>Target organs</b>	Not relevant.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.

### Propane

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Technically not feasible.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	Technically not feasible.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)</b>	800,000.0
<b>Species</b>	Rat
<b>Notes (inhalation LC<sub>50</sub>)</b>	REACH dossier information.
<b>ATE inhalation (gases ppm)</b>	800,000.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	

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<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Chromosome aberration: Negative. Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Screening - NOAEC 9000 ppm, Inhalation, Rat P Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEC: 12000 ppm, Inhalation, Rat Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.

### Butane

<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Technically not feasible.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	Technically not feasible.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)</b>	539,600.0
<b>Species</b>	Mouse
<b>Notes (inhalation LC<sub>50</sub>)</b>	REACH dossier information. Based on available data the classification criteria are not met.
<b>ATE inhalation (gases ppm)</b>	539,600.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.

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### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Technically not feasible.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** Not determined. Scientifically unjustified.

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility - NOAEC 9000 ppm, Inhalation, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEC: 12000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 9000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Distillates (Petroleum), Hydrotreated light

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

### Skin corrosion/irritation

**Animal data** Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

### Respiratory sensitisation

**Respiratory sensitisation** No information available.

### Skin sensitisation

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<b>Skin sensitisation</b>	Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	LOAEL 250 mg/kg/day, Dermal, Mouse REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - NOAEL 750 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Embryotoxicity: - NOAEL: 1000 mg/kg/day, Oral, REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL 750 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Harmful: may cause lung damage if swallowed.

### isobutyl acetate

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 13,413.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Conclusive data but not sufficient for classification.

**ATE oral (mg/kg)** 13,413.0

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 17,400.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** REACH dossier information. Conclusive data but not sufficient for classification.

**ATE dermal (mg/kg)** 17,400.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 30.0

**Species** Rat

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<b>Notes (inhalation LC<sub>50</sub>)</b>	REACH dossier information. Conclusive data but not sufficient for classification.
<b>ATE inhalation (vapours mg/l)</b>	30.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.
<b>Extreme pH</b>	Moderate pH (> 2 and < 11.5).
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No information available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEC 2500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEL: 10 mg/l, Inhalation, REACH dossier information. Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOEL 316 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### Ecological information on ingredients.

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### Acetone

<b>Toxicity</b>	Not considered toxic to fish.
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 12700 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	NOEC, 192 hours: 530 mg/l, Microcystis aeruginosa
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 28 days: 2212 mg/l, Daphnia magna

### Propane

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 27.98 mg/l, Estimated value.
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 14.22 mg/l, Estimated value.
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 7.71 mg/l, Estimated value.
<b>Chronic toxicity - fish early life stage</b>	No information available.

### Butane

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 24.1 mg/l, Estimated value.
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 14.2 mg/l, Estimated value.
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 7.7 mg/l, Estimated value.

### Distillates (Petroleum), Hydrotreated light

<b>Acute toxicity - fish</b>	LL <sub>50</sub> , 96 hours: 2.5 mg/l, Onchorhynchus mykiss (Rainbow trout) REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	EL50, 48 hours: 1.4 mg/l, Daphnia magna REACH dossier information.
<b>Acute toxicity - aquatic plants</b>	EL50, 72 hours: 1.3 mg/l, Pseudokirchneriella subcapitata REACH dossier information.

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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 17 mg/l, Oryzias latipes (Red killifish) REACH dossier information.
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 25 mg/l, Daphnia magna REACH dossier information.



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**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 370 mg/l, Selenastrum capricornutum  
REACH dossier information.

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 23 mg/l, Daphnia magna  
REACH dossier information.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. Volatile substances are degraded in the atmosphere within a few days.

### Ecological information on ingredients.

#### Acetone

**Persistence and degradability** The substance is readily biodegradable.

**Phototransformation** Water - DT<sub>50</sub> : 20-115 days

**Stability (hydrolysis)** No significant reaction in water.

**Biodegradation** Water - Degradation 90: 28 days

#### Propane

**Persistence and degradability** Highly volatile.

**Phototransformation** Water - DT<sub>50</sub> : 1906 days

**Stability (hydrolysis)** Not applicable.

**Biodegradation** Water - 100%: 385.5 hours

#### Butane

**Phototransformation** Not determined.

**Stability (hydrolysis)** No significant reaction in water.

**Biodegradation** Water - DT<sub>50</sub> : 3.5 days  
Estimated value.  
The substance is readily biodegradable.

#### Distillates (Petroleum), Hydrotreated light

**Phototransformation** Not determined.

**Stability (hydrolysis)** No significant reaction in water.

**Biodegradation** Water - Degradation 61: 28 days  
REACH dossier information.  
Readily biodegradable but failing the 10-day window.

#### isobutyl acetate

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<b>Phototransformation</b>	Water - Half-life : ~ 3.5 days Estimated value. REACH dossier information.
<b>Stability (hydrolysis)</b>	pH7 - Half-life : ~ 3.3 years @ 25°C Estimated value. REACH dossier information.
<b>Biodegradation</b>	Water - Degradation 81: 20 days REACH dossier information. The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### Ecological information on ingredients.

#### Acetone

<b>Bioaccumulative potential</b>	BCF: 3, Estimated value.
<b>Partition coefficient</b>	log Pow: -0.24

#### Propane

<b>Partition coefficient</b>	log Pow: 1.09
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#### Butane

<b>Bioaccumulative potential</b>	The product is not bioaccumulating.
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#### Distillates (Petroleum), Hydrotreated light

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	No information available.

#### isobutyl acetate

<b>Bioaccumulative potential</b>	BCF: 15.3, Estimated value. REACH dossier information. The product is not bioaccumulating.
<b>Partition coefficient</b>	log Pow: 2.3

### 12.4. Mobility in soil

**Mobility** The product is immiscible with water and will spread on the water surface. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### Ecological information on ingredients.

#### Acetone

<b>Mobility</b>	Highly volatile. Soluble in water.
<b>Henry's law constant</b>	2.303 Pa m <sup>3</sup> /mol @ 15°C

#### Propane

<b>Mobility</b>	Highly volatile.
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### Butane

**Mobility** The product is insoluble in water. Highly volatile.

### Distillates (Petroleum), Hydrotreated light

**Mobility** The product is insoluble in water and will spread on the water surface. The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### isobutyl acetate

**Mobility** The product is insoluble in water and will spread on the water surface.

**Adsorption/desorption coefficient** Water - log Koc: < 3 @ °C Estimated value. REACH dossier information.

**Henry's law constant** 41.6 Pa m<sup>3</sup>/mol @ °C REACH dossier information.

**Surface tension** 62.5 mN/m @ 20°C REACH dossier information.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

### Acetone

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

### Propane

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

### Butane

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

### Distillates (Petroleum), Hydrotreated light

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

### isobutyl acetate

**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** None known.

### Ecological information on ingredients.

### Acetone

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**Other adverse effects**      None known.

### Propane

**Other adverse effects**      None known.

### Butane

**Other adverse effects**      None known.

### Distillates (Petroleum), Hydrotreated light

**Other adverse effects**      None known.

### isobutyl acetate

**Other adverse effects**      None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information**      When handling waste, the safety precautions applying to handling of the product should be considered. Do not puncture or incinerate, even when empty.

**Disposal methods**      Dispose of waste product or used containers in accordance with local regulations

## SECTION 14: Transport information

**General**      For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### 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, flammable

**Proper shipping name (ADN)**      AEROSOLS

### 14.3. Transport hazard class(es)

**ADR/RID class**      2 (5F)

**ADR/RID label**      2.1

**IMDG class**      2.1

**ICAO class/division**      2.1

**ADN class**      2.1

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### Transport labels



#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**EmS** F-D, S-U

**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 relevant.

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

<b>National regulations</b>	The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
<b>EU legislation</b>	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). 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).
<b>Health and environmental listings</b>	Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (as amended). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants (as amended). Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended). None of the ingredients are listed.
<b>Authorisations (Title VII Regulation 1907/2006)</b>	No specific authorisations are known for this product.
<b>Restrictions (Title VIII Regulation 1907/2006)</b>	No specific restrictions on use are known for this product.
<b>SEVESO</b>	P3a - Lower tier 150 tonnes, Upper tier 500 tonnes.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

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<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>BCF: Bioconcentration Factor.</p> <p>Kow: Octanol-water partition coefficient.</p>
<b>Classification abbreviations and acronyms</b>	<p>Aerosol = Aerosol</p> <p>Eye Irrit. = Eye irritation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Aerosol 1 - H222, H229: Bridging principle (Aerosols). Eye Irrit. 2 - H319, STOT SE 3 - H336: Calculation method. EUH066: Expert judgement.</p>
<b>Revision date</b>	16/03/2016
<b>Revision</b>	3
<b>Supersedes date</b>	28/01/2015
<b>SDS number</b>	970
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H222 Extremely flammable aerosol.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H229 Pressurised container: may burst if heated</p> <p>H229 Pressurised container: may burst if heated</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.