



## SAFETY DATA SHEET

### Thinners

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

##### 1.1. Product identifier

**Product name** Thinners

**Internal identification** SWS

**REACH registration notes** This product is made from either a combination of materials whose REACH numbers are listed in section 3, or wholly or partly from substances recovered from waste. Reclaimed materials are according to the REACH-Regulation article 2 No. 7d exempted from the obligation of registration.  
The movement of goods may therefore be permitted without a registration number.

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

**Identified uses** PC9a: Coatings and paints, thinners, paint removers. Industrial use only.

**Uses advised against** Anything other than the above - not for professional or consumer use.

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

**Supplier** Solvents With Safety Ltd  
Units 1-4  
Plumtree Farm Industrial Estate  
Harworth  
Doncaster  
DN11 8EW  
United Kingdom  
01302 711733  
01302 711744  
sales@solventswithsafety.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** 0844 5605341 (24 Hours) (in use from 13/01/13)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

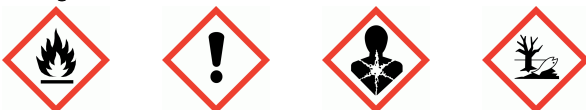
**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361fd STOT SE 3 - H336 STOT RE 2 - H373  
Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

##### 2.2. Label elements

**Pictogram**



## Thinners

<b>Signal word</b>	Danger
<b>Hazard statements</b>	<p>H225 Highly flammable liquid and vapour.  H304 May be fatal if swallowed and enters airways.  H315 Causes skin irritation.  H319 Causes serious eye irritation.  H336 May cause drowsiness or dizziness.  H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H411 Toxic to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P241 Use explosion-proof electrical equipment.  P260 Do not breathe vapour/ spray.  P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  P308+P313 IF exposed or concerned: Get medical advice/ attention.  P233 Keep container tightly closed.</p>
<b>Contains</b>	TOLUENE, HEPTANE, CYCLOHEXANE, HEXANE-norm, PROPAN-1-OL, PROPAN-2-OL, BUTANOL-norm, BUTAN-2-OL, ACETONE, BUTANONE, METHYL ACETATE, ETHYL ACETATE, PROPYL ACETATE, BUTYL ACETATE -norm
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.  P202 Do not handle until all safety precautions have been read and understood.  P240 Ground/ bond container and receiving equipment.  P242 Use only non-sparking tools.  P243 Take precautionary measures against static discharge.  P271 Use only outdoors or in a well-ventilated area.  P273 Avoid release to the environment.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P314 Get medical advice/ attention if you feel unwell.  P331 Do NOT induce vomiting.  P332+P313 If skin irritation occurs: Get medical advice/ attention.  P337+P313 If eye irritation persists: Get medical advice/ attention.  P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  P391 Collect spillage.  P403+P235 Store in a well-ventilated place. Keep cool.  P405 Store locked up.  P501 Dispose of contents/ container in accordance with national regulations.</p>

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## Thinners

<b>Toluene</b>	<b>5-10%</b>
CAS number: 108-88-3	EC number: 203-625-9
	REACH registration number: 01-2119471310-51-XXXX
<b>Classification</b>	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
Repr. 2 - H361d	
STOT SE 3 - H336	
STOT RE 2 - H373	
Asp. Tox. 1 - H304	
<b>BUTYL ACETATE -norm</b>	<b>&lt;5%</b>
CAS number: 123-86-4	EC number: 204-658-1
	REACH registration number: 01-2119485493-29-XXXX
<b>Classification</b>	
Flam. Liq. 3 - H226	
STOT SE 3 - H336	
<b>ACETONE</b>	<b>&lt;5%</b>
CAS number: 67-64-1	EC number: 200-662-2
	REACH registration number: 01-2119471330-49-XXXX
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H336	
<b>Heptane</b>	<b>&lt;5%</b>
CAS number: 142-82-5	EC number: 205-563-8
	REACH registration number: 01-2119457603-38-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>ETHYLBENZENE</b>	<b>&lt;5%</b>
CAS number: 100-41-4	EC number: 202-849-4
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H332	

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<b>CYCLOHEXANE</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01-2119463273-41-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
<b>Butanone</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>PROPYL ACETATE</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 109-60-4	EC number: 203-686-1	REACH registration number: 01-2119484620-39-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>Methyl iso-Butyl Ketone (MIBK)</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 108-10-1	EC number: 203-550-1	REACH registration number: 01-2119473980-30-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335		

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<b>ETHYL ACETATE</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>METHANOL</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		
<b>Propan-2-ol</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>HEXANE-norm</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 110-54-3	EC number: 203-777-6	REACH registration number: 01-2119480412-44-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
<b>BUTAN-2-OL</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 78-92-2	EC number: 201-158-5	
<b>Classification</b> Flam. Liq. 3 - H226 Eye Irrit. 2 - H319 STOT SE 3 - H335, H336		

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<b>BUTANOL-norm</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 71-36-3	EC number: 200-751-6	REACH registration number: 01-2119484630-38-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		
<b>PROPAN-1-OL</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 71-23-8	EC number: 200-746-9	REACH registration number: 01-2119486761-29-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Dam. 1 - H318 STOT SE 3 - H336		<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R41 R67
<b>METHYL ACETATE</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 79-20-9	EC number: 201-185-2	REACH registration number: 01-2119459211-47-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
<b>Xylene</b> <span style="float: right;"><b>&lt;5%</b></span>		
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		
<b>Ethanol</b> <span style="float: right;"><b>&lt;5%</b></span>		
CAS number: 64-17-5	EC number: 200-578-6	
<b>Classification</b> Flam. Liq. 2 - H225		

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<b>Tetrahydrofuran</b>		<b>&lt;1%</b>
CAS number: 109-99-9	EC number: 203-726-8	REACH registration number: 01-2119444314-46-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
Carc. 2 - H351		
STOT SE 3 - H335		

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>Inhalation</b>	Remove casualty from exposure ensuring one's own safety whilst doing so. If inhaled remove person to fresh air and keep comfortable for breathing.
<b>Ingestion</b>	Do not induce vomiting. If conscious give 500ml of water to drink immediately. Wash out mouth with water. Consult a doctor.
<b>Skin contact</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash skin thoroughly with soap and water. If irritation occurs get medical advice/attention.
<b>Eye contact</b>	If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Transfer to hospital for specialist examination.

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

<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
<b>Skin contact</b>	There may be irritation and redness at the site of contact.
<b>Eye contact</b>	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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

<b>Notes for the doctor</b>	If exposed or concerned get medical advice/attention.
<b>Specific treatments</b>	Eye bathing equipment should be available on the premises.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire. Water Spray may be used to keep fire exposed containers cool
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#### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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### SECTION 6: Accidental release measures

## Thinners

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

**Personal precautions** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Take precautionary measures against static discharge.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding. Avoid release to the environment.

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

**Methods for cleaning up** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation of mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting. Do not breathe mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Use only non-sparking tools.

**Advice on general occupational hygiene** Take off contaminated clothing and wash it before re-use.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** No data available.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Toluene**

Long-term exposure limit (8-hour TWA): mg/m<sup>3</sup>(Sk) \ ppm(Sk) 1 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): mg/m<sup>3</sup>(Sk) < 0 ppm(Sk) 4 mg/m<sup>3</sup>(Sk)

##### **BUTYL ACETATE -norm**

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

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m<sup>3</sup>

##### **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>

##### **Heptane**

Long-term exposure limit (8-hour TWA): WEL 500 ppm

Short-term exposure limit (15-minute): WEL



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### ETHYLBENZENE

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

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

### CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m<sup>3</sup>

### Butanone

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m<sup>3</sup>(Sk)

### PROPYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 849 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 1060 mg/m<sup>3</sup>

### Methyl iso-Butyl Ketone (MIBK)

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 208 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 416 mg/m<sup>3</sup>(Sk)

### ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 266 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 333 mg/m<sup>3</sup>(Sk)

### 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>

### HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

### BUTAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 308 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 150 ppm 462 mg/m<sup>3</sup>

### BUTANOL-norm

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m<sup>3</sup>(Sk)

### PROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 500 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 625 mg/m<sup>3</sup>(Sk)

### METHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 616 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 770 mg/m<sup>3</sup>

### Xylene

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

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

### Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

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### Tetrahydrofuran

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 150 mg/m3(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 300 mg/m3(Sk)

WEL = Workplace Exposure Limit

**DNEL** No data available.

**PNEC** No data available.

### Toluene (CAS: 108-88-3)

**DNEL** No data available.

**PNEC** No data available.

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

**DNEL** No data available.

**PNEC** No data available.

### Butanone (CAS: 78-93-3)

**DNEL** No data available.

**PNEC** No data available.

### Heptane (CAS: 142-82-5)

**DNEL** No data available.

**PNEC** No data available.

### METHANOL (CAS: 67-56-1)

**DNEL** No data available.

**PNEC** No data available.

### Methyl iso-Butyl Ketone (MIBK) (CAS: 108-10-1)

**DNEL** No data available.

**PNEC** No data available.

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

**DNEL** No data available.

**PNEC** No data available.

### Xylene (CAS: 1330-20-7)

**Ingredient comments** WEL = Workplace Exposure Limits

**DNEL** No data available.

**PNEC** No data available.

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### Ethanol (CAS: 64-17-5)

**DNEL** No data available.

**PNEC** No data available.

### Tetrahydrofuran (CAS: 109-99-9)

**DNEL** No data available.

**PNEC** No data available.

## 8.2. Exposure controls

### Protective equipment

**Appropriate engineering controls** Ensure there is sufficient ventilation of the area. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge.

**Eye/face protection** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Hand protection** Wear protective gloves.

**Other skin and body protection** Wear protective clothing. Take precautionary measures against static discharge.

**Respiratory protection** Self-contained breathing apparatus must be available in case of emergency.

**Environmental exposure controls** Prevent from entering in public sewers or the immediate environment.

## **SECTION 9: Physical and Chemical Properties**

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

<b>Appearance</b>	Coloured liquid.
<b>Odour</b>	Unpleasant.
<b>Odour threshold</b>	Data lacking.
<b>pH</b>	Data lacking.
<b>Melting point</b>	Data lacking.
<b>Initial boiling point and range</b>	55 - 160°C @ 760 mm Hg
<b>Flash point</b>	< 21°C
<b>Evaporation rate</b>	Data lacking.
<b>Evaporation factor</b>	Data lacking.
<b>Flammability (solid, gas)</b>	Data lacking.
<b>Upper/lower flammability or explosive limits</b>	Data lacking.
<b>Other flammability</b>	Data lacking.
<b>Vapour pressure</b>	<110 kPa @ 20°C
<b>Vapour density</b>	Data lacking.
<b>Relative density</b>	0.8 - 0.9 @ 20°C
<b>Bulk density</b>	Data lacking.

## Thinners

<b>Solubility(ies)</b>	Data lacking.
<b>Partition coefficient</b>	Data lacking.
<b>Auto-ignition temperature</b>	>203°C
<b>Decomposition Temperature</b>	Data lacking.
<b>Viscosity</b>	Non-viscous
<b>Explosive properties</b>	Data lacking.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not available.

### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 840 g/l.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

**Reactivity** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** In combustion emits toxic fumes.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 4,810.5

**Inhalation** There may be irritation of the throat with a feeling of tightness in the chest.

**Ingestion** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Skin contact** There may be irritation or redness at the site of contact.

**Eye contact** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

### Toxicological information on ingredients.

## Thinners

### Toluene

#### 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

**Skin corrosion/irritation** Irritating to skin.

**Animal data** Data lacking.

**Human skin model test** Data lacking.

**Extreme pH** Data lacking.

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Suspected of damaging development of the unborn child

#### 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** May cause damage to organs through prolonged or repeated exposure

**Target organs** No specific target organs known.

#### Aspiration hazard

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

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<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b>Skin contact</b>	There may be irritation or redness at the site of contact.
<b>Eye contact</b>	There may be pain and redness.
<b>Acute and chronic health hazards</b>	May cause damage to the liver and kidneys.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Liver Kidneys Respiratory system, lungs Central nervous system
<b>Medical symptoms</b>	Difficulty in breathing. Drowsiness, dizziness, disorientation, vertigo. Unconsciousness, possibly death.
<b>Medical considerations</b>	Pre Existing Respiratory Disorders and Lung Diseases.

### BUTYL ACETATE -norm

<b>Inhalation</b>	Drowsiness, dizziness, disorientation, vertigo.
<b>Skin contact</b>	Prolonged contact may cause dryness of the skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Gas or vapour in high concentrations may irritate the respiratory system.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion.
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes.

### ACETONE

<b>Other health effects</b>	There is no evidence that the product can cause cancer.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<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>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Skin sensitisation</u></b>	

## Thinners

<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	This substance has no evidence of mutagenic properties.
<b>Genotoxicity - in vivo</b>	This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	No evidence of reproductive toxicity in animal studies.
<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.
<b><u>General information</u></b>	
<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Inhalation</b>	Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Excessive inhalation of vapours can cause respiratory irritation, headache, drowsiness and fatigue.
<b>Ingestion</b>	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
<b>Skin contact</b>	Product has a defatting effect on skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Vapour from this product may be hazardous by inhalation. Repeated exposure may cause chronic eye irritation. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Central and/or peripheral nervous system damage. Prolonged or repeated exposure may cause the following adverse effects: Serious damage to the lining of nose, throat and lungs. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Sore throat. Irritation of nose, throat and airway.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

## Thinners

<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Skin irritation. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Intoxication. Symptoms following overexposure to dust may include the following: Irritability. Headache. Nausea, vomiting. Hypotension (low blood pressure).
<b>Medical considerations</b>	Skin disorders and allergies.

### Heptane

#### 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

**Skin corrosion/irritation** Irritating to skin.

**Animal data** Data lacking.

**Human skin model test** Data lacking.

**Extreme pH** Data lacking.

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** May induce heritable mutations in the germ cells of humans.

**Genotoxicity - in vivo** May induce heritable mutations in the germ cells of humans.

#### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

**Target organ for carcinogenicity** Not relevant.

**IARC carcinogenicity** Not listed.

**NTP carcinogenicity** Not listed.

**OSHA Carcinogenicity** Not listed.

#### Reproductive toxicity



## Thinners

<b>Reproductive toxicity - fertility</b>	Does not contain any substances known to be toxic to reproduction.
<b>Reproductive toxicity - development</b>	Does not contain any substances known to be toxic to reproduction.
<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>Target organs</b>	Not relevant.
<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>	Aspiration hazard if swallowed.
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<b>Inhalation</b>	Central nervous system depression.
<b>Ingestion</b>	May cause internal injury.
<b>Skin contact</b>	Product has a defatting effect on skin. May cause allergic contact eczema. Product has a defatting effect on skin. Irritating to skin.
<b>Eye contact</b>	The vision may become blurred. The eyes may water profusely.
<b>Acute and chronic health hazards</b>	Prolonged inhalation of high concentrations may damage respiratory system. Product has a defatting effect on skin. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Skin irritation. Difficulty in breathing.

### ETHYLBENZENE

**Toxicological effects** No evidence of carcinogenic mutagenic or teratogenic effects

### CYCLOHEXANE

**Toxicological effects** No evidence of carcinogenic mutagenic or teratogenic effects

## Thinners

<b>Acute and chronic health hazards</b>	Gas or vapour is toxic or extremely irritating, even on brief exposure. Gas or vapour is harmful on prolonged exposure or in high concentrations. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Repeated exposure may cause chronic eye irritation. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Respiratory system, lungs Skin
<b>Medical symptoms</b>	Severe irritation, burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
<b>Medical considerations</b>	Skin disorders and allergies. Convulsions. Central nervous system depression.

### Butanone

<b>Other health effects</b>	There is no evidence that the product can cause cancer.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<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>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	This substance has no evidence of mutagenic properties.
<b>Genotoxicity - in vivo</b>	This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.

## Thinners

### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** No evidence of reproductive toxicity in animal studies.

### 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** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

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

### **General information**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

### **Inhalation**

Vapour from this product may be hazardous by inhalation.

### **Ingestion**

May cause severe internal injury.

### **Skin contact**

Product has a defatting effect on skin. May cause allergic contact eczema.

### **Eye contact**

May cause severe eye irritation.

### **Acute and chronic health hazards**

Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Vapour from this product may be hazardous by inhalation. Repeated exposure may cause chronic eye irritation. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Central and/or peripheral nervous system damage. Prolonged or repeated exposure may cause the following adverse effects: Serious damage to the lining of nose, throat and lungs. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Sore throat. Irritation of nose, throat and airway.

### **Route of entry**

Inhalation Ingestion. Skin absorption Skin and/or eye contact

### **Target organs**

Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

### **Medical symptoms**

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Unconsciousness.

### **Medical considerations**

Chronic respiratory and obstructive airway diseases. Pre-existing eye problems. Skin disorders and allergies.

## PROPYL ACETATE

### **Toxicological effects**

No evidence of carcinogenic mutagenic or teratogenic effects

## Methyl iso-Butyl Ketone (MIBK)

### **Toxicological effects**

No evidence of carcinogenic mutagenic or teratogenic effects

## Thinners

### 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>)** Harmful if inhaled.

### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** This substance has no evidence of toxicity to reproduction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Causes respiratory irritation

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

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

**Inhalation** Harmful if inhaled

**Ingestion** May cause discomfort if swallowed.

**Skin contact** There may be irritation or redness at the site of contact. An itchy rash may occur at the site of contact.

**Eye contact** There may be pain and redness.

## Thinners

<b>Acute and chronic health hazards</b>	Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death. May cause severe eye irritation.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Respiratory system, lungs Skin
<b>Medical symptoms</b>	Severe irritation, burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
<b>Medical considerations</b>	Skin disorders and allergies. Convulsions. Central nervous system depression.

### ETHYL ACETATE

<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Inhalation</b>	Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Excessive inhalation of vapours can cause respiratory irritation, headache, drowsiness and fatigue.
<b>Ingestion</b>	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
<b>Skin contact</b>	Product has a defatting effect on skin. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Irritating to skin. Irritating to eyes. May cause respiratory system irritation. May cause severe internal injury. May cause damage to the liver and kidneys.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<b>Target organs</b>	Liver Kidneys Mucous membranes Gastro-intestinal tract
<b>Medical symptoms</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Difficulty in breathing. Gastrointestinal symptoms, including upset stomach. Severe headache. Unconsciousness.
<b>Medical considerations</b>	Liver and/or kidney damage. Skin disorders and allergies. Pre-existing eye problems.

### METHANOL

<b>Toxicological effects</b>	No evidence of carcinogenic mutagenic or teratogenic effects
<b>Other health effects</b>	There is no evidence that the product can cause cancer.

## Thinners

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Toxic if swallowed.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Toxic in contact with skin.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Toxic if inhaled.

### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating to eyes

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** No evidence of reproductive toxicity in animal studies.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Causes damage to organs

**Target organs** Eyes

### Specific target organ toxicity - repeated exposure

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

### Aspiration hazard

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

### General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

### Inhalation

Drowsiness, dizziness, disorientation, vertigo.

### Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

## Thinners

<b>Skin contact</b>	Prolonged contact may cause dryness of the skin.
<b>Eye contact</b>	Causes serious eye damage.
<b>Acute and chronic health hazards</b>	Gas or vapour is harmful on prolonged exposure or in high concentrations. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Toxic through skin absorption (percutaneous). Narcotic effect. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Central nervous system Eyes Gastro-intestinal tract Heart & cardiovascular system Skin
<b>Medical symptoms</b>	Severe irritation, burning and tearing. Visual disturbances, including blurred vision. Respiratory failure. Death. Severe skin irritation. Nausea, vomiting. Headache. Behavioural changes. Tremors, convulsions.
<b>Medical considerations</b>	Skin disorders and allergies.

### Propan-2-ol

<b>Other health effects</b>	There is no evidence that the product can cause cancer.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<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>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	This substance has no evidence of mutagenic properties.
<b>Genotoxicity - in vivo</b>	This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.
<b><u>Reproductive toxicity</u></b>	

## Thinners

<b>Reproductive toxicity - fertility</b>	This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	No evidence of reproductive toxicity in animal studies.
<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.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Swallowing concentrated chemical may cause severe internal injury.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	Contains components which may penetrate the skin. Prolonged contact may cause redness, irritation and dry skin.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b><u>Acute and chronic health hazards</u></b>	
<b>Acute and chronic health hazards</b>	Exposure; This chemical has good warning properties. Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. May cause chemical eye burns. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
<b><u>Route of entry</u></b>	
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b><u>Target organs</u></b>	
<b>Target organs</b>	Central nervous system Eyes Respiratory system, lungs Skin
<b><u>Medical symptoms</u></b>	
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
<b><u>Medical considerations</u></b>	
<b>Medical considerations</b>	Convulsions. Central nervous system depression.

### HEXANE-norm

<b><u>Inhalation</u></b>	
<b>Inhalation</b>	Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Harmful: possible risk of irreversible effects if swallowed.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	Product has a defatting effect on skin. May cause allergic contact eczema.



## Thinners

<b>Eye contact</b>	May cause severe eye irritation.
<b>Acute and chronic health hazards</b>	May cause unconsciousness, blindness and possibly death.
<b>Route of entry</b>	Inhalation Ingestion.
<b>Target organs</b>	Central nervous system Eyes
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Unconsciousness.

### BUTANOL-norm

<b>Toxicological effects</b>	No evidence of carcinogenic mutagenic or teratogenic effects
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Harmful if swallowed.
<b><u>Acute toxicity - dermal</u></b>	
<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>Skin corrosion/irritation</b>	Irritating to skin.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Does not contain any substances known to be mutagenic.
<b>Genotoxicity - in vivo</b>	Does not contain any substances known to be mutagenic.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.
<b>Target organ for carcinogenicity</b>	Not relevant.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Causes respiratory irritation

## Thinners

<b>Target organs</b>	Respiratory system, lungs
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b><u>STOT - repeated exposure</u></b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.
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<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Product has a defatting effect on skin. May cause allergic contact eczema.
<b>Eye contact</b>	Causes serious eye damage.
<b>Acute and chronic health hazards</b>	Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Gas or vapour in high concentrations may irritate the respiratory system.
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b>Target organs</b>	Eyes Mucous membranes Respiratory system, lungs
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Drowsiness, dizziness, disorientation, vertigo.
<b>Medical considerations</b>	Splash in eye requires examination by eye specialist.

### PROPAN-1-OL

<b>Toxicological effects</b>	No evidence of carcinogenic mutagenic or teratogenic effects
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### METHYL ACETATE

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<b>Inhalation</b>	Vapour may irritate respiratory system/lungs. Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. May cause an asthma-like shortness of breath.
<b>Ingestion</b>	May cause stomach pain or vomiting. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin contact</b>	Product has a defatting effect on skin.
<b>Eye contact</b>	Severe irritation, burning and tearing.
<b>Acute and chronic health hazards</b>	This product may cause skin and eye irritation. Prolonged inhalation of high concentrations may damage respiratory system. Product has a defatting effect on skin. May cause allergic contact eczema. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion.
<b>Target organs</b>	Central nervous system Eyes Respiratory system, lungs
<b>Medical symptoms</b>	Severe irritation, burning and tearing. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

## Thinners

**Medical considerations** Pre-existing eye problems. Pre Existing Respiratory Disorders and Lung Diseases.

### Xylene

**Toxicological effects** No information available.

**Other health effects** There is no evidence that the product can cause cancer.

#### 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>)** Harmful in contact with skin.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Harmful if inhaled.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

**Animal data** Data lacking.

**Human skin model test** Data lacking.

**Extreme pH** Data lacking.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating to eyes

#### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

#### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** Does not contain any substances known to be toxic to reproduction.

#### 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** Not classified as a specific target organ toxicant after repeated exposure.

#### Aspiration hazard

## Thinners

<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.
<b>General information</b>	No specific health hazards known.
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
<b>Skin contact</b>	There may be irritation or redness at the site of contact.
<b>Eye contact</b>	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred.
<b>Acute and chronic health hazards</b>	This product may cause skin and eye irritation. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). A single exposure may cause the following adverse effects: Central nervous system depression. Anaesthetic in high concentrations. Repeated exposure may cause chronic eye irritation. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact
<b>Target organs</b>	Blood Central nervous system Eyes Gastro-intestinal tract Kidneys Liver Respiratory system, lungs Skin
<b>Medical symptoms</b>	Severe irritation, burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
<b>Medical considerations</b>	Skin disorders and allergies. Convulsions. Central nervous system depression.

### Ethanol

<b>Other health effects</b>	IARC Int. Agency for Cancer Research.
<b><u>Acute toxicity - oral</u></b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - dermal</u></b>	
<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>Skin corrosion/irritation</b>	Not irritating.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not irritating to eyes
<b><u>Respiratory sensitisation</u></b>	

## Thinners

<b>Respiratory sensitisation</b>	Not sensitising.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	This substance has no evidence of mutagenic properties.
<b>Genotoxicity - in vivo</b>	This substance has no evidence of mutagenic properties.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	There is no evidence that the product can cause cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	No evidence of reproductive toxicity in animal studies.
<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.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	May cause liver and/or renal damage.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	There may be pain and redness.
<b><u>Acute and chronic health hazards</u></b>	
<b>Acute and chronic health hazards</b>	Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. Known or suspected teratogen. A single exposure may cause the following adverse effects: Central nervous system depression. Repeated exposure may cause chronic eye irritation. High concentrations may cause severe lung damage. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
<b><u>Route of entry</u></b>	
<b>Route of entry</b>	Inhalation Ingestion. Skin and/or eye contact
<b><u>Target organs</u></b>	
<b>Target organs</b>	Central nervous system Eyes Gastro-intestinal tract Liver Respiratory system, lungs Skin
<b><u>Medical symptoms</u></b>	
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Headache. Behavioural changes. Hypotension (low blood pressure). Dizziness. Confusion, agitation and/or excitation.

## Thinners

**Medical considerations** Convulsions. Central nervous system depression.

### Tetrahydrofuran

**Other health effects** Possible carcinogen

#### 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

**Skin corrosion/irritation** Not irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

#### Skin sensitisation

**Skin sensitisation** Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** Suspected of causing cancer.

**Target organ for carcinogenicity** Not known.

#### Reproductive toxicity

**Reproductive toxicity - fertility** This substance has no evidence of toxicity to reproduction.

**Reproductive toxicity - development** No evidence of reproductive toxicity in animal studies.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Causes respiratory irritation

**Target organs** Respiratory system, lungs

#### Specific target organ toxicity - repeated exposure

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

#### Aspiration hazard

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

## Thinners

<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Inhalation</b>	Drowsiness, dizziness, disorientation, vertigo.
<b>Ingestion</b>	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
<b>Skin contact</b>	Prolonged contact may cause dryness of the skin.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Acute and chronic health hazards</b>	Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Unconsciousness. Death.
<b>Route of entry</b>	No route of entry noted.
<b>Target organs</b>	Central nervous system Eyes Kidneys Liver Respiratory system, lungs Skin
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Respiratory failure. Death. Skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
<b>Medical considerations</b>	Convulsions. Central nervous system depression.

### SECTION 12: Ecological Information

#### Ecological information on ingredients.

##### Toluene

**Ecotoxicity** The product is not expected to be hazardous to the environment.

##### ACETONE

**Ecotoxicity** Fish: Low Daphnia: Moderate

##### Heptane

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

##### ETHYLBENZENE

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

##### Butanone

**Ecotoxicity** The product is not expected to be hazardous to the environment.

##### PROPYL ACETATE

## Thinners

**Ecotoxicity** There are no data on the ecotoxicity of this product.

### Methyl iso-Butyl Ketone (MIBK)

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### ETHYL ACETATE

**Ecotoxicity** The product is not expected to be toxic to aquatic organisms.

### METHANOL

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### Propan-2-ol

**Ecotoxicity** Not regarded as dangerous for the environment.

### BUTANOL-norm

**Ecotoxicity** Not regarded as dangerous for the environment.

### Xylene

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### Ethanol

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### Tetrahydrofuran

**Ecotoxicity** Fish: Low Daphnia: Moderate

## 12.1. Toxicity

### Ecological information on ingredients.

### Toluene

**Toxicity** Not considered toxic to fish.

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10 - 100 mg/l, Algae

### BUTYL ACETATE -norm

**Toxicity** LOW

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 100 mg/l, Algae

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 44-205 mg/l, Daphnia magna

### ACETONE

**Toxicity** LOW

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Algae



## Thinners

### Heptane

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 4 mg/l, Algae

#### Chronic aquatic toxicity

M factor (Chronic) 1

### ETHYLBENZENE

Toxicity MODERATE.

### CYCLOHEXANE

Toxicity MODERATE.

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 10-100 mg/l, Algae

#### Chronic aquatic toxicity

M factor (Chronic) 1

### Butanone

Toxicity LOW

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >100 mg/l, Algae

### PROPYL ACETATE

Toxicity LOW

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 318 mg/l, Daphnia magna

### Methyl iso-Butyl Ketone (MIBK)

Toxicity Not considered toxic to fish.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >100 mg/l, Algae

### METHANOL

Toxicity Not considered toxic to fish.

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 24900 mg/l, Algae

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 44-205 mg/l, Daphnia magna

## Thinners

### Propan-2-ol

<b>Toxicity</b>	LOW
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >100 mg/l, Algae

### HEXANE-norm

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: Nol Information Found mg/l, Algae
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### BUTANOL-norm

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1000-1200 mg/l, Algae
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 1855 mg/l, Daphnia magna

### PROPAN-1-OL

<b>Toxicity</b>	LOW
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >100 mg/l, Algae

### METHYL ACETATE

<b>Toxicity</b>	Not considered toxic to fish.
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >100 mg/l, Algae

### Xylene

<b>Toxicity</b>	Not considered toxic to fish.
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1430 mg/l, Algae
<b>Acute toxicity - aquatic invertebrates</b>	Not available.
<b>Acute toxicity - aquatic plants</b>	Not available.
<b>Acute toxicity - microorganisms</b>	Not available.
<b>Acute toxicity - terrestrial</b>	Not available.
<b>Chronic toxicity - fish early life stage</b>	Not available.
<b>Short term toxicity - embryo and sac fry stages</b>	Not available.
<b>Chronic toxicity - aquatic invertebrates</b>	Not available.

### Ethanol

<b>Toxicity</b>	Not considered toxic to fish.
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## Thinners

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Algae

### Tetrahydrofuran

**Toxicity** LOW

**Acute toxicity - fish** Peces LC<sub>50</sub>, 96 horas: 2160 mg/l, Peces

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 44-205 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The product is biodegradable.

### Ecological information on ingredients.

#### Toluene

**Persistence and degradability** No data available.

#### BUTYL ACETATE -norm

**Persistence and degradability** The degradability of the product is not known.

#### ACETONE

**Persistence and degradability** No data available.

#### Heptane

**Persistence and degradability** No data available.

**Biodegradation** Data lacking.

#### ETHYLBENZENE

**Persistence and degradability** MODERATE

#### CYCLOHEXANE

**Persistence and degradability** SIGNIFICANT COMPARTMENTS LIKELY TO BE:~ AIR RAPID PHOTO OXIDATION

#### Butanone

**Persistence and degradability** No data available.

#### PROPYL ACETATE

**Persistence and degradability** RAPID.

## Thinners

### Methyl iso-Butyl Ketone (MIBK)

**Persistence and degradability** The product is slowly degradable.

### METHANOL

**Persistence and degradability** No data available.

### Propan-2-ol

**Persistence and degradability** No data available.

### HEXANE-norm

**Persistence and degradability** The product is not readily biodegradable.

### BUTANOL-norm

**Persistence and degradability** The product is biodegradable.

### PROPAN-1-OL

**Persistence and degradability** SIGNIFICANT COMPARTMENTS LIKELY TO BE:~ WATER RAPID. AIR RAPID PHOTO OXIDATION

### METHYL ACETATE

**Persistence and degradability** The product is expected to be slowly biodegradable.

### Xylene

**Persistence and degradability** No data available.

### Ethanol

**Persistence and degradability** No data available.

### Tetrahydrofuran

**Persistence and degradability** The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** Data lacking.

### Ecological information on ingredients.

## Thinners

### Toluene

**Bioaccumulative potential** Data lacking.  
**Partition coefficient** Data lacking.

### BUTYL ACETATE -norm

**Bioaccumulative potential** The product is not bioaccumulating.

### ACETONE

**Bioaccumulative potential** Data lacking.  
**Partition coefficient** : -0.24

### Heptane

**Bioaccumulative potential** LOW  
**Partition coefficient** Data lacking.

### ETHYLBENZENE

**Bioaccumulative potential** LOW

### CYCLOHEXANE

**Bioaccumulative potential** MODERATE ON THE BASIS OF LOG KOW

### Butanone

**Bioaccumulative potential** Data lacking.  
**Partition coefficient** Data lacking.

### PROPYL ACETATE

**Bioaccumulative potential** LOW

### Methyl iso-Butyl Ketone (MIBK)

**Bioaccumulative potential** LOW  
**Partition coefficient** : 1.38

### METHANOL

**Bioaccumulative potential** The product is not bioaccumulating.  
**Partition coefficient** Data lacking.

### Propan-2-ol

**Bioaccumulative potential** Data lacking.  
**Partition coefficient** Data lacking.

## Thinners

### HEXANE-norm

**Bioaccumulative potential** The product is not bioaccumulating.

### BUTANOL-norm

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** Data lacking.

### PROPAN-1-OL

**Bioaccumulative potential** LOW ON THE BASIS OF LOG KOW

### METHYL ACETATE

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

### Xylene

**Bioaccumulative potential** Data lacking.

**Partition coefficient** Data lacking.

### Ethanol

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** Data lacking.

### Tetrahydrofuran

**Bioaccumulative potential** Data lacking.

**Partition coefficient** Data lacking.

#### 12.4. Mobility in soil

**Mobility** Readily absorbed into soil

#### Ecological information on ingredients.

### Toluene

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### ACETONE

**Mobility** Highly volatile.

### Heptane

**Mobility** Readily absorbed into soil

### ETHYLBENZENE

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

## Thinners

### CYCLOHEXANE

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### Butanone

**Mobility** Mobile.

### PROPYL ACETATE

**Mobility** Highly mobile due to infinite water solubility.

### Methyl iso-Butyl Ketone (MIBK)

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. Readily absorbed into soil

### METHANOL

**Mobility** Readily absorbed into soil

### Propan-2-ol

**Mobility** Highly volatile.

### HEXANE-norm

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### BUTANOL-norm

**Mobility** Absorbed only slowly onto soil

### Xylene

**Mobility** Readily absorbed into soil

**Adsorption/desorption coefficient** Data lacking.

**Henry's law constant** Data lacking.

**Surface tension** Data lacking.

### Ethanol

**Mobility** Highly mobile due to infinite water solubility.

### Tetrahydrofuran

**Mobility** Readily absorbed into soil

## 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.

## Thinners

### Ecological information on ingredients.

#### Toluene

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

#### ACETONE

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

#### Heptane

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

#### Butanone

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

#### Methyl iso-Butyl Ketone (MIBK)

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

#### METHANOL

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

#### Propan-2-ol

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

#### BUTANOL-norm

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

#### Xylene

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

#### Ethanol

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

#### Tetrahydrofuran

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



## Thinners

### 12.6. Other adverse effects

**Other adverse effects** Negligible ecotoxicity

### Ecological information on ingredients.

#### Toluene

**Other adverse effects** Negligible ecotoxicity

#### Heptane

**Other adverse effects** Dangerous for the environment.

#### Methyl iso-Butyl Ketone (MIBK)

**Other adverse effects** Negligible ecotoxicity

#### BUTANOL-norm

**Other adverse effects** Negligible ecotoxicity

#### Xylene

**Other adverse effects** Negligible ecotoxicity

#### Tetrahydrofuran

**Other adverse effects** Negligible ecotoxicity

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Avoid release to the environment.

**Disposal methods** Transfer to a suitable container and arrange for collection by specialised disposal company. NB the user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Waste class** 08 01 11

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1263

**UN No. (IMDG)** 1263

**UN No. (ICAO)** 1263

**UN No. (ADN)** 1263

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** PAINT RELATED MATERIAL

**Proper shipping name (IMDG)** PAINT RELATED MATERIAL

**Proper shipping name (ICAO)** PAINT RELATED MATERIAL

**Proper shipping name (ADN)** PAINT RELATED MATERIAL

## Thinners

### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

### 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

National regulations Not applicable

### 15.2. Chemical safety assessment

A REACH chemical safety assessment has been carried out on the REACH registered products showing in section 3 of SDS

## SECTION 16: Other information

## Thinners

<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate. DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration. CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] EUH statement: CLP-specific Hazard statement
<b>General information</b>	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
<b>Revision comments</b>	REACH 2.7d update
<b>Issued by</b>	Nicola Dobson, Technical Services Supervisor
<b>Revision date</b>	27/11/2017
<b>Revision</b>	12
<b>Supersedes date</b>	10/11/2017
<b>SDS number</b>	20846
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H361d Suspected of damaging the unborn child. H361f Suspected of damaging fertility. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H370 Causes damage to organs . H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>Signature</b>	N Dobson

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.