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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: Pre-Thinned Sanding Sealer
- Contains n-butyl acetate, butan-1-ol, toluene and tetrahydrofuran

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

- Use of the substance/mixture: Paint or paint related material
- Use advised against: No information available

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

- Name of Supplier: Hampshire Sheen Ltd
- Address of Supplier: Garthowen Garden Centre  
Alton Lane  
Four Marks  
Hampshire  
GU34 5AJ  
UK
- Telephone: +44 (0) 1420 560077
- Email: Sales@hampshiresheen.com

#### 1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 7713 349883

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H336; Carc. 2, H351; Repr. 2, H361d; Aquatic Chronic 2, H411; EUH066
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

#### 2.2 Label elements

- A tactile warning of danger (TWD, raised triangle) is required for this product



- Signal Word: Danger
- Hazard statements
  - H225 - Highly flammable liquid and vapour.
  - H304 - May be fatal if swallowed and enters airways.
  - H315 - Causes skin irritation.
  - H318 - Causes serious eye damage.
  - H336 - May cause drowsiness or dizziness.
  - H351 - Suspected of causing cancer.
  - H361f - Suspected of damaging fertility.
  - H411 - Toxic to aquatic life with long lasting effects.
- Precautionary statements
  - P102 - Keep out of reach of children.
  - P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

## SECTION 2: Hazards identification (....)

smoking.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Supplemental Hazard Information (EU)

EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

- May be harmful if swallowed or inhaled, or in contact with skin.
- May cause respiratory tract irritation.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

### 3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	WEL /OEL
N-butyl acetate	10 - 20%	123-86-4	204-658-1	Flam. Liq. 3, H226; STOT SE 3, H336; EUH066	01-2119485493-29	Yes
Acetone	10 - 20%	67-64-1	200-662-2	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	01-2119471330-49	Yes
Butan-1-ol	5 - 10%	71-36-3	200-751-6	Flam. Liq. 3, H226; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335; STOT SE 3, H336	01-2119484630-38	Yes
Propan-2-ol	5 - 10%	67-63-0	200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25	Yes
Ethanol	5 - 10%	64-17-5	200-578-6	Flam. Liq. 2, H225; Eye Irrit. 2, H319	01-2119457610-43	Yes
1-methoxy -2-propanol	1 - 5%	107-98-2	203-53-9	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119457435-35	Yes
Di-"isononyl" phthalate	1 - 5%	28553-12-0	249-079-5	Not Classified	01-2119430798-28	Yes
Toluene	1 - 5%	108-88-3	203-625-9	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Repr. 2, H361d; STOT SE 3, H336; STOT RE 2, H373	01-2119471310-51	Yes
Butan-2-ol	1 - 5%	78-92-2	201-158-5	Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335; STOT SE 3, H336	-	Yes

**SECTION 3: Composition/information on ingredients (....)**

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	WEL /OEL
Cyclohexane	1 - 5%	110-82-7	203-806-2	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	-	Yes
Ethylbenzene	1 - 5%	100-41-4	202-849-4	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Acute Tox. 4, H332; STOT RE 2, H373	-	Yes
Heptane	1 - 5%	142-82-5	205-563-8	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	-	Yes
N-hexane	1 - 5%	110-54-3	203-777-6	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Repr. 2, H361f; STOT RE 2, H373; Aquatic Chronic 2, H411	-	Yes
Propan-1-ol	1 - 5%	71-23-8	200-746-9	Flam. Liq. 2, H225; Eye Dam. 1, H318; STOT SE 3, H336	-	Yes
Xylene	1 - 5%	1330-20-7	215-535-7	Flam. Liq. 3, H226; Acute Tox. 4, H312; Skin Irrit. 2, H315; Acute Tox. 4, H332	-	Yes
Methyl acetate	1 - 5%	79-20-9	201-185-2	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	-	Yes
Ethyl acetate	1 - 5%	141-78-6	205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	01-2119475103-46	Yes
Methanol	1 - 5%	67-56-1	200-659-6	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	01-2119433307-44	Yes
4-methyl pentan-2-one	1 - 5%	108-10-1	203-550-1	Flam. Liq. 2, H225; Eye Irrit. 2, H319; Acute Tox. 4, H332; STOT SE 3, H335; EUH066	-	Yes
Propyl acetate	1 - 5%	109-60-4	203-686-1	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	-	Yes

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### SECTION 3: Composition/information on ingredients (....)

Chemical Name	Conc.	CAS Number	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	WEL /OEL
Tetrahydrofuran	1 - 5%	109-99-9	203-726-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; Carc. 2, H351; STOT SE 3, H335; EUH019	-	Yes
Butanone; Ethyl methyl ketone	1 - 5%	78-93-3	201-159-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066	-	Yes

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Contact with eyes  
If substance has got into eyes, immediately wash out with plenty of water for several minutes  
Irrigate eyes thoroughly whilst lifting eyelids  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.
- Contact with skin  
Remove contaminated clothing  
Gently wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.
- Ingestion  
Rinse mouth with water (do not swallow)  
Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected  
obtain immediate medical attention  
If vomiting occurs turn patient on side  
Seek immediate medical attention
- Inhalation  
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for  
breathing.  
Keep warm and at rest, in a half upright position. Loosen clothing  
Get immediate medical advice/attention.

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

- Contact with eyes  
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.  
Lachrymatory effects (makes eyes water)
- Contact with skin  
Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases,  
dermatitis  
Repeated exposure may cause skin dryness or cracking
- Ingestion  
The ingestion of significant quantities may cause nausea/vomiting  
The ingestion of significant quantities may cause diarrhoea  
The ingestion of significant quantities may cause pulmonary oedema
- Inhalation  
May cause respiratory tract irritation.  
Inhalation of solvent vapours may give rise to nausea, headaches and dizziness

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## **SECTION 4: First aid measures (....)**

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

- Advice to Physician: Potential for chemical pneumonitis.
- Consider: gastric lavage with protected airway, administration of activated charcoal.
- Treat symptomatically

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## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Unsuitable extinguishing media: high volume water jet
- Use water to cool containers exposed to fire.

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

- Highly flammable liquid and vapour.
- In confined spaces, sewers, etc., the vapours may collect to form explosive mixtures with air
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include nitrogen and carbon oxides

### 5.3 Advice for firefighters

- Collect contaminated fire extinguishing water separately. This **MUST** not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

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## **SECTION 6: Accidental release measures**

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

- Personal precautions for non-emergency personnel: Do not breathe vapour; Do not get in eyes, on skin, or on clothing.; Wear protective clothing as per section ; Wash thoroughly after handling.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Shut off all ignition sources; Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

### 6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

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

- Stop leak if safe to do so.
- Evacuate the area and keep personnel upwind
- Take action to prevent static discharges.
- Use non-sparking tools.
- Ground and bond container and receiving equipment.
- Absorb spillage in earth or sand
- Do not absorb spillage in sawdust or other combustible material
- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Ventilate the area and wash spill site after material pick-up is complete

### 6.4 Reference to other sections

- See section(s): 7, 8 & 9

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

- Use non-sparking handtools
- Take action to prevent static discharges.
- Use only outdoors or in a well-ventilated area.
- Do not breathe vapour/fumes
- In case of inadequate ventilation wear respiratory protection.
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not eat, drink or smoke when using this product.
- Contaminated clothing should be laundered before reuse
- Wash thoroughly after handling.

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

- Keep container tightly closed.
- Opened containers should be carefully resealed and stored in an upright position
- Store at ambient temperature
- Take precautionary measures against static discharges
- Use explosion-proof electrical equipment.
- Incompatible with strong acids
- Incompatible with alkalis (strong bases)
- Keep away from acid
- Keep away from oxidisers, heat, flames or ignition sources
- Keep away from food, drink and animal feedingstuffs

### **7.3 Specific end use(s)**

- Paint
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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

- N-butyl acetate
    - WEL (long term) 150 ppm 724 mg/m<sup>3</sup> (UK)
    - WEL (short term limit value) 200 ppm 966 mg/m<sup>3</sup> (UK)
    - DNEL (inhalational) 48 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
    - DNEL (inhalational) 600 mg/m<sup>3</sup> Industry, Short Term, Systemic Effects
    - DNEL (inhalational) 300 mg/m<sup>3</sup> Industry, Long Term, Local Effects
    - DNEL (inhalational) 600 mg/m<sup>3</sup> Industry, Short Term, Local Effects
    - DNEL (dermal) 7 mg/kg (bw/day) Industry, Long Term, Systemic Effects
    - DNEL (dermal) 11 mg/kg (bw/day) Industry, Short Term, Systemic Effects
    - DNEL (inhalational) 12 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
    - DNEL (inhalational) 300 mg/m<sup>3</sup> Consumer, Short Term, Systemic Effects
    - DNEL (inhalational) 35.7 mg/m<sup>3</sup> Consumer, Long Term, Local Effects
    - DNEL (inhalational) 300 mg/m<sup>3</sup> Consumer, Short Term, Local Effects
    - DNEL (dermal) 3.4 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
    - DNEL (dermal) 6 mg/kg (bw/day) Consumer, Short Term, Systemic Effects
    - DNEL (oral) 2 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
    - DNEL (oral) 2 mg/kg (bw/day) Consumer, Short Term, Systemic Effects
    - PNEC aqua (freshwater) 180 ug/l
    - PNEC aqua (intermittent releases, freshwater) 360 ug/l
    - PNEC aqua (marine water) 18 ug/l
    - PNEC (STP) 35.6 mg/l
    - PNEC sediment (freshwater) 981 ug/kg
    - PNEC sediment (marine water) 98.1 ug/kg
    - PNEC terrestrial (soil) 90.3 ug/kg
  - Acetone
    - (EU) OELV (long term TWA) 500 ppm 1210 mg/m<sup>3</sup>
    - WEL (long term) 500 ppm 1210 mg/m<sup>3</sup> (UK)
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**SECTION 8: Exposure controls/personal protection (....)**

- WEL (short term limit value) 1500 ppm 3620 mg/m<sup>3</sup> (UK)  
PNEC aqua (freshwater) 10.6 mg/l  
PNEC aqua (intermittent releases, freshwater) 21 mg/l  
PNEC aqua (intermittent releases, marine water) 1.06 mg/l  
PNEC (STP) 100 mg/l  
PNEC sediment (freshwater) 30.4 mg/kg  
PNEC sediment (marine water) 3.04 mg/kg  
PNEC terrestrial (soil) 29.5 mg/kg
- Butan-1-ol  
WEL (short term limit value) 50 ppm 154 mg/m<sup>3</sup> (UK, can be absorbed through the skin.)  
DNEL (inhalational) 310 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 55.357 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 155 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (dermal) 3.125 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 1.562 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 82 ug/l  
PNEC aqua (marine water) 8.2 ug/l  
PNEC aqua (intermittent releases, freshwater) 2.25 mg/l  
PNEC (STP) 2.476 g/l  
PNEC sediment (freshwater) 324 ug/kg  
PNEC sediment (marine water) 32.4 ug/kg  
PNEC terrestrial (soil) 16.6 ug/kg
- Propan-2-ol  
WEL (long term) 400 ppm 999 mg/m<sup>3</sup> (UK)  
WEL (short term limit value) 500 ppm 1250 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 500 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (dermal) 888 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 89 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (dermal) 319 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 26 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 140.9 mg/l  
PNEC aqua (marine water) 140.9 mg/l  
PNEC aqua (intermittent releases, freshwater) 140.9 mg/l  
PNEC (STP) 2.251 g/l  
PNEC sediment (freshwater) 552 mg/kg  
PNEC sediment (marine water) 552 mg/kg  
PNEC terrestrial (soil) 28 mg/kg  
PNEC secondary poisoning (food) 160 mg/kg
- Ethanol  
WEL (long term TWA) 1 000 ppm 1 920 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 950 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 1 900 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 343 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 114 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 950 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 206 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 87 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 960 ug/l  
PNEC aqua (intermittent releases, freshwater) 2.75 mg/l  
PNEC aqua (marine water) 790 ug/l  
PNEC (STP) 580 mg/l  
PNEC sediment (freshwater) 3.6 mg/kg  
PNEC sediment (marine water) 2.9 mg/kg  
PNEC terrestrial (soil) 630 ug/kg  
PNEC secondary poisoning (food) 380 - 720 mg/kg
- 1-methoxy-2-propanol  
(EU) OELV (long term TWA) 100 ppm 375 mg/m<sup>3</sup>  
(EU) OELV (short term limit value) 150 ppm 563 mg/m<sup>3</sup>  
WEL (long term TWA) 100 ppm 375 mg/m<sup>3</sup> (UK)  
WEL (short term limit value) 150 ppm 560 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 369 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects



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## **SECTION 8: Exposure controls/personal protection (....)**

- DNEL (inhalational) 553.5 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 553.5 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 183 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 43.9 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (dermal) 78 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 33 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 10 mg/l  
PNEC aqua (intermittent releases, freshwater) 100 mg/l  
PNEC aqua (marine water) 1 mg/l  
PNEC (STP) 100 mg/l  
PNEC sediment (freshwater) 52.3 mg/kg  
PNEC sediment (marine water) 5.2 mg/kg  
PNEC terrestrial (soil) 4.59 mg/kg
- Di-"isononyl" phthalate  
WEL (long term) 5 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 51.72 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (dermal) 366 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 15.3 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (dermal) 220 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 4.4 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC terrestrial (soil) 30 mg/kg
- Toluene  
(EU) OELV (long term TWA) 50 ppm 192 mg/m<sup>3</sup>  
(EU) OELV (short term limit value) 100 ppm 384 mg/m<sup>3</sup>  
WEL (long term) 50 ppm 191 mg/m<sup>3</sup> (UK)  
WEL (short term limit value) 100 ppm 383 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 192 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 384 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 192 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 384 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 384 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 56.5 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 226 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 56.5 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (inhalational) 226 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 226 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 8.13 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 680 ug/l  
PNEC aqua (intermittent releases, freshwater) 680 ug/l  
PNEC aqua (marine water) 680 ug/l  
PNEC (STP) 13.6 mg/l  
PNEC sediment (freshwater) 16.39 mg/kg  
PNEC sediment (marine water) 16.39 mg/kg  
PNEC terrestrial (soil) 2.89 mg/kg
- Butan-2-ol  
WEL (long term) 100 ppm 308 mg/m<sup>3</sup> (UK)  
WEL (short term limit value) 150 ppm 462 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 600 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (dermal) 405 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 213 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (dermal) 203 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 15 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 47.1 mg/l  
PNEC aqua (intermittent releases, freshwater) 47.1 mg/l  
PNEC aqua (marine water) 47.1 mg/l  
PNEC (STP) 761 mg/l  
PNEC sediment (freshwater) 196.19 mg/kg  
PNEC sediment (marine water) 196.19 mg/kg  
PNEC terrestrial (soil) 11.58 mg/kg  
PNEC secondary poisoning (food) 1 g/kg



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## **SECTION 8: Exposure controls/personal protection (....)**

- Cyclohexane
  - (EU) OELV (long term TWA) 200 ppm 700 mg/m<sup>3</sup>
  - WEL (long term) 100 ppm 350 mg/m<sup>3</sup> (UK)
  - WEL (short term limit value) 300 ppm 1 050 mg/m<sup>3</sup> (UK)
  - DNEL (inhalational) 700 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 1 400 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects
  - DNEL (inhalational) 700 mg/m<sup>3</sup> Industry, Long Term, Local Effects
  - DNEL (inhalational) 1 400 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects
  - DNEL (dermal) 2 016 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 206 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
  - DNEL (inhalational) 412 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects
  - DNEL (inhalational) 206 mg/m<sup>3</sup> Consumer, Long Term, Local Effects
  - DNEL (inhalational) 412 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects
  - DNEL (dermal) 1 186 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 59.4 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - PNEC aqua (freshwater) 207 ug/l
  - PNEC aqua (intermittent releases, freshwater) 207 ug/l
  - PNEC aqua (intermittent releases, marine water) 207 ug/l
  - PNEC (STP) 3.24 mg/l
  - PNEC sediment (freshwater) 16.68 mg/kg
  - PNEC sediment (marine water) 16.68 mg/kg
  - PNEC terrestrial (soil) 3.38 mg/kg
- Ethylbenzene
  - (EU) OELV (long term TWA) 100 ppm 442 mg/m<sup>3</sup>
  - (EU) OELV (short term limit value) 200 ppm 884 mg/m<sup>3</sup>
  - WEL (long term) 100 ppm 441 mg/m<sup>3</sup> (UK, can be absorbed through the skin.)
  - WEL (short term limit value) 125 ppm 552 mg/m<sup>3</sup> (UK, can be absorbed through the skin.)
  - DNEL (inhalational) 77 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 293 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects
  - DNEL (dermal) 180 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 15 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
  - DNEL (oral) 1.6 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
- Heptane
  - (EU) OELV (long term TWA) 500 ppm 2 085 mg/m<sup>3</sup>
  - WEL (long term) 500 ppm 2 085 mg/m<sup>3</sup> (UK)
- N-hexane
  - (EU) OELV (long term TWA) 20 ppm 72 mg/m<sup>3</sup>
  - WEL (long term): 20 ppm 72 mg/m<sup>3</sup> (UK)
  - DNEL (inhalational) 75 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (dermal) 11 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 16 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
  - DNEL (dermal) 5.3 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 4 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
- Propan-1-ol
  - WEL (long term) 200 ppm 500 mg/m<sup>3</sup> (UK, can be absorbed through the skin)
  - WEL (short term limit value) 250 ppm 625 mg/m<sup>3</sup> (UK, can be absorbed through the skin)
  - DNEL (inhalational) 268 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 1 723 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects
  - DNEL (dermal) 136 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - PNEC aqua (freshwater) 10 mg/l
  - PNEC aqua (intermittent releases, freshwater) 10 mg/l
  - PNEC aqua (marine water) 1 mg/l
  - PNEC (STP) 96 mg/l
  - PNEC sediment (freshwater) 22.8 mg/kg
  - PNEC sediment (marine water) 2.28 mg/kg
  - PNEC terrestrial (soil) 2.2 mg/kg
- Xylene
  - BMGV (Biological Monitoring Guidance Value) (UK) 650 mmol methyl hippuric acid/mol creatine in

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**SECTION 8: Exposure controls/personal protection (....)**

- urine Sampling Time: post shift  
(EU) OELV (long term TWA) 50 ppm 221 mg/m<sup>3</sup>  
(EU) OELV (short term limit value) 100 ppm 442 mg/m<sup>3</sup>  
WEL (long term TWA) 50 ppm 220 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
WEL (short term limit value) 100 ppm 441 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
DNEL (inhalational) 221 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 442 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 221 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 442 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 212 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 65.3 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 260 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 65.3 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (inhalational) 260 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 125 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 12.5 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 327 ug/l  
PNEC aqua (intermittent releases, freshwater) 327 ug/l  
PNEC aqua (marine water) 327 ug/l  
PNEC (STP) 6.58 mg/l  
PNEC sediment (freshwater) 12.46 mg/kg  
PNEC sediment (marine water) 12.46 mg/kg  
PNEC terrestrial (soil) 2.31 mg/kg
- Methyl acetate  
WEL (long term) 200 ppm 616 mg/m<sup>3</sup> (UK)  
WEL (short term limit value) 250 ppm 770 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 610 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 305 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (dermal) 88 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 152 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (dermal) 44 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 44 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 120 ug/l  
PNEC aqua (intermittent releases, freshwater) 1.2 mg/l  
PNEC aqua (marine water) 12 ug/l  
PNEC (STP) 600 mg/l  
PNEC sediment (freshwater) 128 ug/kg  
PNEC sediment (marine water) 12.8 ug/kg  
PNEC terrestrial (soil) 41.6 ug/kg  
PNEC secondary poisoning (food) 20.4 mg/kg
- Ethyl acetate  
(EU) OELV (long term TWA) 200 ppm 734 mg/m<sup>3</sup>  
(EU) OELV (short term limit value) 400 ppm 1468 mg/m<sup>3</sup>  
WEL (long term): 200 ppm 730 mg/m<sup>3</sup> (UK)  
WEL (short term): 400 ppm 1460 mg/m<sup>3</sup> (UK)  
DNEL (inhalational) 734 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 1468 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 734 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 1468 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 63 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 367 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 734 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 367 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (inhalational) 734 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 37 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 4.5 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 240 ug/l  
PNEC aqua (marine water) 24 ug/l  
PNEC aqua (intermittent releases, freshwater) 1.65 mg/l  
PNEC (STP) 650 mg/l  
PNEC sediment (freshwater) 1.15 mg/kg  
PNEC sediment (marine water) 115 ug/kg

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## SECTION 8: Exposure controls/personal protection (....)

- PNEC terrestrial (soil) 148 ug/kg  
PNEC secondary poisoning (food) 200 mg/kg
- Methanol
    - (EU) OELV (long term TWA) 200 ppm 260 mg/m<sup>3</sup>
    - WEL (long term TWA) 200 ppm 266 mg/m<sup>3</sup> (UK)
    - WEL (short term limit value) 250 ppm 333 mg/m<sup>3</sup> (UK)
    - DNEL (inhalational) 260 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
    - DNEL (inhalational) 260 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects
    - DNEL (inhalational) 260 mg/m<sup>3</sup> Industry, Long Term, Local Effects
    - DNEL (inhalational) 260 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects
    - DNEL (dermal) 40 mg/kg (bw/day) Industry, Long Term, Systemic Effects
    - DNEL (dermal) 40 mg/kg (bw/day) Industry, Acute/Short Term, Systemic Effects
    - DNEL (inhalational) 50 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
    - DNEL (inhalational) 50 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects
    - DNEL (inhalational) 50 mg/m<sup>3</sup> Consumer, Long Term, Local Effects
    - DNEL (inhalational) 50 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects
    - DNEL (dermal) 8 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
    - DNEL (dermal) 8 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
    - DNEL (oral) 8 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
    - DNEL (oral) 8 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
    - PNEC aqua (freshwater) 20.8 mg/l
    - PNEC aqua (intermittent releases, freshwater) 1.54 g/l
    - PNEC aqua (marine water) 2.08 mg/l
    - PNEC (STP) 100 mg/l
    - PNEC sediment (freshwater) 77 mg/kg
    - PNEC sediment (marine water) 7.7 mg/kg
    - PNEC terrestrial (soil) 100 mg/kg
  - 4-methylpentan-2-one
    - BMGV (Biological Monitoring Guidance Value) (UK) 20 µmol 4-methylpentan-2-one/L in urine.
    - Sampling Time: post shift
    - (EU) OELV (long term TWA) 20 ppm 83 mg/m<sup>3</sup>
    - (EU) OELV (short term limit value) 50 ppm 208 mg/m<sup>3</sup>
    - WEL (long term) 50 ppm 208 mg/m<sup>3</sup> (UK, can be absorbed through the skin)
    - WEL (short term limit value) 100 ppm 416 mg/m<sup>3</sup> (UK, can be absorbed through the skin)
    - DNEL (oral) 4.2 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
    - PNEC aqua (freshwater) 600 ug/l
    - PNEC aqua (intermittent releases, freshwater) 1.5 mg/l
    - PNEC aqua (marine water) 60 ug/l
    - PNEC (STP) 27.5 mg/l
    - PNEC sediment (freshwater) 8.27 mg/kg
    - PNEC sediment (marine water) 830 ug/kg
    - PNEC terrestrial (soil) 1.3 mg/kg
  - Propyl acetate
    - WEL (long term) 200 ppm 849 mg/m<sup>3</sup> (UK)
    - WEL (short term limit value) 250 ppm 1060 mg/m<sup>3</sup> (UK)
    - DNEL (inhalational) 420 mg/m<sup>3</sup> Industry, Long Term, Local Effects
    - DNEL (inhalational) 840 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects
    - DNEL (inhalational) 210 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
    - DNEL (inhalational) 420 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects
    - DNEL (inhalational) 210 mg/m<sup>3</sup> Consumer, Long Term, Local Effects
    - DNEL (inhalational) 420 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects
    - PNEC aqua (freshwater) 60 ug/l
    - PNEC aqua (intermittent releases, freshwater) 600 ug/l
    - PNEC aqua (marine water) 6 ug/l
    - PNEC (STP) 1 mg/l
    - PNEC sediment (freshwater) 160 ug/kg
    - PNEC sediment (marine water) 16 ug/kg
    - PNEC terrestrial (soil) 21.5 ug/kg
  - Tetrahydrofuran
    - (EU) OELV (long term TWA) 50 ppm 150 mg/m<sup>3</sup>

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## **SECTION 8: Exposure controls/personal protection (....)**

- (EU) OELV (short term limit value) 100 ppm 300 mg/m<sup>3</sup>  
WEL (long term) 50 ppm 150 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
WEL (short term limit value) 100 ppm 300 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
DNEL (inhalational) 72.4 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (inhalational) 96 mg/m<sup>3</sup> Industry, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 150 mg/m<sup>3</sup> Industry, Long Term, Local Effects  
DNEL (inhalational) 300 mg/m<sup>3</sup> Industry, Acute/Short Term, Local Effects  
DNEL (dermal) 12.6 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 13 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (inhalational) 52 mg/m<sup>3</sup> Consumer, Acute/Short Term, Systemic Effects  
DNEL (inhalational) 75 mg/m<sup>3</sup> Consumer, Long Term, Local Effects  
DNEL (inhalational) 150 mg/m<sup>3</sup> Consumer, Acute/Short Term, Local Effects  
DNEL (dermal) 1.5 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 1.5 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
PNEC aqua (freshwater) 4.32 mg/l  
PNEC aqua (intermittent releases, freshwater) 21.6 mg/l  
PNEC aqua (marine water) 432 ug/l  
PNEC (STP) 4.6 mg/l  
PNEC sediment (freshwater) 23.3 mg/kg  
PNEC sediment (marine water) 2.33 mg/kg  
PNEC terrestrial (soil) 2.13 mg/kg  
PNEC secondary poisoning (food) 67 mg/kg
- Butanone; Ethyl methyl ketone  
BMGV (Biological Monitoring Guidance Value) (UK) 70 µmol butan-2-one/L in urine. Sampling Time: post shift  
(EU) OELV (long term TWA) 200 ppm 600 mg/m<sup>3</sup>  
(EU) OELV (short term limit value) 300 ppm 900 mg/m<sup>3</sup>  
WEL (long term) 200 ppm 600 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
WEL (short term limit value) 300 ppm 899 mg/m<sup>3</sup> (UK, can be absorbed through the skin)  
DNEL (inhalational) 600 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects  
DNEL (dermal) 1 161 mg/kg (bw/day) Industry, Long Term, Systemic Effects  
DNEL (inhalational) 106 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects  
DNEL (dermal) 412 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
DNEL (oral) 31 mg/kg (bw/day) Consumer, Long Term, Systemic Effects  
PNEC aqua (freshwater) 55.8 mg/l  
PNEC aqua (intermittent releases, freshwater) 55.8 mg/l  
PNEC aqua (intermittent releases, marine water) 55.8 mg/l  
PNEC (STP) 709 mg/l  
PNEC sediment (freshwater) 284.74 mg/kg  
PNEC sediment (marine water) 284.7 mg/kg  
PNEC terrestrial (soil) 22.5 mg/kg  
PNEC secondary poisoning (food) 1 g/kg

### **8.2 Exposure controls**

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls should be provided to prevent the need for ventilation
- In case of insufficient ventilation, wear suitable positive pressure respiratory protection equipment
- Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827
- Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK
- Wear suitable protective clothing, including eye/face protection and gloves (nitrile are recommended)
- Wear safety glasses approved to standard EN 166.
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear anti-static boots
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.

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## **SECTION 8: Exposure controls/personal protection (....)**

- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Contaminated work clothing should not be allowed out of the workplace.
- Contaminated clothing should be laundered before reuse
- Use good personal hygiene practices



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## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- Appearance: Milky white liquid
- Odour: Solvent odour
- Odour threshold: No information available
- pH: Not applicable
- Melting point/freezing point: No information available
- Initial boiling point and boiling range: 55 - 160 °C
- Flashpoint: < 21 °C
- Evaporation Rate: No information available
- Flammability (solid,gas): No information available
- Upper/lower flammability or explosive limits: No information available
- Vapour Pressure: No information available
- Vapour Density: No information available
- Relative Density: 0.8 - 0.9 at 20°C
- Solubility(ies): No information available
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: No information available
- Explosive Properties: Non-explosive
- Oxidising properties: Not oxidising

### 9.2 Other information

- No information available

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

### 10.1 Reactivity

- Reacts with strong oxidizing substances

### 10.2 Chemical stability

- Stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Take action to prevent static discharges.

### 10.5 Incompatible materials

- Incompatible with strong acids
- Incompatible with alkalis (strong bases)

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## SECTION 10: Stability and reactivity (....)

- Incompatible with strong oxidizing substances

### 10.6 Hazardous decomposition products

- Decomposition products may include nitrogen and carbon oxides
- 

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute Toxicity

Based on available data, the classification criteria are not met

#### N-butyl acetate

LD50 (oral, rat) 10 736 - 12 760 mg/kg bw

LC50 (inhalation, rat) 1 087 - 1 109 ppm/4h

LD50 (dermal, rabbit) 16 ml/kg bw

#### Acetone

LD50 (oral, rat) 5 800 mg/kg bw

LC50 (inhalation, rat) 76 mg/l/4h

LD50 (dermal, rabbit) 7 426 mg/kg bw

#### Butan-1-ol

LD50 (oral, rat) 2 292 mg/kg bw

LC50 (inhalation, rat) 17.76 mg/l/4h

LD50 (dermal, rabbit) 3 430 mg/kg bw

#### Propan-2-ol

LD50 (oral, rat) 5 840 mg/kg bw

LC50 (inhalation, rat) 10 000 ppm (6 h)

LD50 (dermal, rabbit) 16.4 ml/kg bw

#### Ethanol

LD50 (oral, rat) 1187 - 15 010 mg/kg

LC50 (inhalation, rat) 115.9 - 133.8 mg/l/4h

LDLo (dermal, (rabbit) 20 000 mg/kg bw

#### 1-methoxy-2-propanol

LD50 (oral, rat) 3 739 - 4 277 mg/kg bw

LC0 (inhalation, rat) 7 000 ppm/6h

LC50 (inhalation, mouse) 6 000 - 7 000 ppm/6 h

LD50 (dermal, rat) 2 000 mg/kg bw

#### Di-"isononyl" phthalate

LD50 (oral, rat) 10 000 mg/kg bw

LC50 (inhalation, rat) 4.4 mg/l/4h

LD50 (dermal, rabbit) 3 160 mg/kg bw

#### Toluene

LD50 (oral, rat) 5 580 mg/kg bw

LC50 (inhalation, rat) 25.7 - 30 mg/l/4h

LD50 (dermal, rabbit) 5 000 mg/kg bw

#### Butan-2-ol

LD50 (oral, rat) 2 054 - 2 328 mg/kg bw

LD50 (dermal, rat) 2 000 mg/kg bw

#### Cyclohexane

LD50 (oral, rat) 5 000 mg/kg bw

LC50 (inhalation, rat) 32.88 mg/l/4h

LD50 (dermal, rabbit) 2 000 mg/kg bw

#### Ethylbenzene

LD50 (oral, rat) 3 500 mg/kg bw



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## SECTION 11: Toxicological information (....)

LD50 (dermal, rabbit) 15 400 mg/kg bw

### Heptane

LD50 (oral, rat) 5 000 mg/kg bw

LC50 (inhalation, rat) 29.29 - 73.5 mg/l/4h

LD50 (dermal, rabbit) 2 000 mg/kg bw

### N-hexane

LD50 (oral, rat) 24 - 49 ml/kg bw

LC50 (inhalation, rat) 73 860 ppm/4h

LD50 (dermal, rabbit) 5 ml/kg bw

### Propan-1-ol

LD50 (oral, rat) 1 0870 - 8 000 mg/kg bw

LD50 (dermal, rabbit) 4 032 mg/kg bw

### Xylene

LD50 (oral, rat) 3 523 - 4 000 mg/kg bw

LC50 (inhalation, rat) 6 350 - 6 700 ppm/4h

LD50 (dermal, rabbit) 12 126 mg/kg bw

### Methyl Acetate

LD50 (oral, rat) 6 482 mg/kg bw

LC0 (inhalation, rabbit) 49.2 mg/l/4h

LD50 (dermal, rat) 2 000 mg/kg bw

### Ethyl Acetate

LD50 (oral, rat) 11.3 ml/kg bw

LClo (inhalation, rat) 6 000 ppm/6h

LD50 (dermal, rabbit) 20 000 mg/kg

### Methanol

LD50 (oral, rat) 1 187 - 2 769 mg/kg bw

LC50 (inhalation, rat) 115.9 - 130.7 mg/l (4 h)

### 4-methylpentan-2-one

LC50 (inhalation, rat) 11.6 mg/l/4h

LD50 (dermal, rat) 2 000 mg/kg bw

### Propyl acetate

LD50 (oral, rat) 8 700 mg/kg bw

LC50 (inhalation, rat) 32 mg/l/4h

LD50 (dermal, rabbit) 17 800 mg/kg bw

### Tetrahydrofuran

LD50 (oral, rat) 1.65 mg/kg bw

LC50 (inhalation, rat) 14.7 mg/l/6h

LD50 (dermal, rat) 2 000 mg/kg bw

### Butanone; Ethyl methyl ketone

LD50 (dermal, rabbit) 10 ml/kg bw

- Skin corrosion/irritation
  - Causes skin irritation.
  - Classification based on calculation and concentration thresholds
- Serious eye damage/irritation
  - Causes serious eye damage.
  - Classification based on calculation and concentration thresholds
- Respiratory or skin sensitisation
  - Based on available data, the classification criteria are not met
- Germ cell mutagenicity
  - No evidence of mutagenic effects



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## **SECTION 11: Toxicological information (....)**

- Carcinogenicity  
Suspected of causing cancer.  
Classification based on calculation and concentration thresholds  
Tetrahydrofuran is a Category 2 Carcinogen in concentrations >1%
- Reproductive toxicity  
Suspected of damaging the unborn child.  
Classification based on calculation and concentration thresholds  
Toluene is suspected of damaging the unborn child  
N-hexane is suspected of damaging fertility
- Specific target organ toxicity (STOT) - single exposure  
STOT SE 3  
May cause drowsiness or dizziness.
- Target organs: Has central nervous system effects  
Classification based on calculation and concentration thresholds
- Specific target organ toxicity (STOT) - repeated exposure  
Based on available data, the classification criteria are not met
- Aspiration hazard  
May be fatal if swallowed and enters airways.  
Classification based on calculation and concentration thresholds
- Contact with eyes  
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.  
Lachrymatory effects (makes eyes water)
- Contact with skin  
Repeated exposure may cause skin dryness or cracking.  
Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis
- Ingestion  
The ingestion of significant quantities may cause nausea/vomiting  
The ingestion of significant quantities may cause diarrhoea  
The ingestion of significant quantities may cause pulmonary oedema
- Inhalation  
May cause respiratory tract irritation.  
Inhalation of solvent vapours may give rise to nausea, headaches and dizziness

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

- Toxic to aquatic life with long lasting effects.
- Classification based on calculation and concentration thresholds
- N-butyl acetate  
LC50 (fish): 18 mg/l (4 days)  
EC50 (aquatic invertebrates) 32 - 44 mg/l (48 hr)  
EC50 (aquatic algae) 392 mg/l (48 hr)
- Acetone  
LC50 (fish) 5.54 - 8.12 g/l (4 days)  
EC50 (aquatic invertebrates) 8.8 g/l (48 hr)
- Butan-1-ol  
LC50 (fish) 1.376 g/l (4 days)  
EC50 (aquatic invertebrates) 1.328 g/l (48 hr)  
EC50 (aquatic algae) 225 mg/l (96 hr)
- Propan-2-ol  
LC50 (fish) 9.64 - 10 g/l (4 days)  
EC50 (aquatic invertebrates) 10 g/l (24 hr)

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**SECTION 12: Ecological information (....)**

- Ethanol
  - LC50 (fish) 14.2 - 15.4 g/l (4 days)
  - EC50 (aquatic invertebrates) 10 g/l (48 hr)
  - EC50 (aquatic algae) 275 mg/l (72 hr)
- 1-methoxy-2-propanol
  - LC50 (fish) 1 - 20.8 g/l (4 days)
  - LC50 (aquatic invertebrates) 21.1 - 25.9 g/l (48 hr)
  - EC50 (aquatic algae) 1 g/l (7 days)
- Di-"isononyl" phthalate
  - LC50 (fish) 102 mg/l (4 days)
  - EC50 (aquatic invertebrates) 74 mg/l (48 hr)
  - EL50 (aquatic algae) 88 mg/l (72 hr)
- Toluene
  - LC50 (fish) 5.5 mg/l (4 days)
  - LC50 (aquatic invertebrates) 3.78 mg/l (48 hr)
  - EC50 (aquatic algae) 134 - 207 mg/l (3 hr)
- Butan-2-ol
  - LC50 (fish) 2.993 g/l (4 days)
  - EC50 (aquatic invertebrates) 308 mg/l (48 hr)
  - EC50 (aquatic algae) 1.888 g/l (48 hr)
- Cyclohexane
  - LC50 (fish) 4.53 mg/l (4 days)
  - EC50 (aquatic invertebrates) 900 - 2 400 ug/l (48 hr)
  - EC50 (aquatic algae) 3.428 - 9.317 mg/l (72 hr)
- Ethylbenzene
  - LC50 (fish) 4.2 - 5.1 mg/l (4 days)
  - EC50 (aquatic invertebrates) 1.8 - 2.4 mg/l (48 hr)
  - EC50 (aquatic algae) 4.9 - 5.4 mg/l (72 hr)
- Heptane
  - LL50 (fish) 5.738 mg/l (4 days)
  - EC50 (aquatic invertebrates) 1.5 mg/l (48 hr)
  - EL50 (aquatic algae) 4.338 mg/l (72 hr)
- N-hexane
  - LL50 (fish) 12.51 mg/l (4 days)
  - EL50 (aquatic invertebrates) 21.85 mg/l (48 hr)
  - EL50 (aquatic algae) 9.285 mg/l (72 hr)
- Propan-1-ol
  - LC50 (fish) 4.555 g/l (4 days)
  - EC50 (aquatic invertebrates) 3.644 g/l (48 hr)
  - EC50 (aquatic algae) 9.17 g/l (48 hr)
- Xylene
  - LC50 (fish) 2.6 - 8.4 mg/l (4 days)
  - EC50 (aquatic invertebrates) 1 mg/l (24 hr)
  - EC50 (aquatic algae) 4.6 - 4.9 mg/l (72 hr)
- Methyl acetate
  - LC50 (fish) 250 - 350 mg/l (4 days)
  - EC50 (aquatic invertebrates) 1.027 g/l (48 hr)
  - EC50 (aquatic algae) 120 mg/l (72 hr)
- Ethyl acetate
  - LC50 (fish): 230 mg/l (4 days)
  - IC50 (aquatic algae) 346 - 655 mg/l (24 hr)
  - EC50 (aquatic algae) 5.6 g/l (48 hr)

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## **SECTION 12: Ecological information (....)**

- Methanol  
LC50 (fish) 15.4 g/l (4 days)  
EC50 (aquatic invertebrates) 18.26 g/l (4 days)  
EC50 (aquatic algae) 22 g/l (4 days)
- 4-methylpentan-2-one  
LC50 (fish) 179 mg/l (4 days)  
EL50 (aquatic invertebrates) 200 mg/l (48 hr)
- Propyl acetate  
LC50 (fish) 60 mg/l (4 days)  
EC50 (aquatic invertebrates) 91.5 mg/l (48 hr)  
EC50 (aquatic algae) 672 mg/l (72 hr)
- Tetrahydrofuran  
LC50 (fish) 2.16 g/l (4 days)
- Butanone; Ethyl methyl ketone  
LC50 (fish) 2.993 - 3.2 g/l (4 days)  
EC50 (aquatic invertebrates) 308 - 5 091 mg/l (48 hr)  
EC50 (aquatic algae) 2.029 g/l (4 days)

### 12.2 Persistence and degradability

- Will degrade

### 12.3 Bioaccumulative potential

- No information available

### 12.4 Mobility in soil

- No information available

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

### 12.6 Other adverse effects

- To the best of our knowledge, the ecological properties of this material have not been fully evaluated.

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## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

- To be disposed of as hazardous waste
- Disposal should be in accordance with local, state or national legislation
- Do not pierce or burn container, even after use
- Empty containers may contain flammable vapours

### 13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- UK Waste Codes: Product is 08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances  
Packaging is 15 01 10\* packaging containing residues of or contaminated by hazardous substances

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## **SECTION 14: Transport information**



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## **SECTION 14: Transport information (....)**

### 14.1 UN number

- UN No.: 1263

### 14.2 UN proper shipping name

- Proper Shipping Name: PAINT

### 14.3 Transport hazard class(es)

- Hazard Class: 3

### 14.4 Packing group

- Packing Group: II

### 14.5 Environmental hazards

- Marine pollutant

### 14.6 Special precautions for user

- Protect from heat
- Avoid release to the environment.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable

### 14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: PAINT
- ADR UN No.: 1263
- ADR Hazard Class: 3
- ADR Packing Group: II
- Tunnel Code: D/E
- LQ: 5 L

### 14.9 Sea (IMDG)

- Proper Shipping Name: PAINT
- IMDG UN No.: 1263
- IMDG Hazard Class: 3
- IMDG Pack Group.: II
- LQ: 5 L

### 14.10 Air (ICAO/IATA)

- Proper Shipping Name: PAINT
- ICAO UN No.: 1263
- ICAO Hazard Class: 3
- ICAO Packing Group: II
- LQ: Y341 (0.5 L per inner packaging, 1.0 L total net quantity per outer packaging)

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## **SECTION 15: Regulatory information**

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- This product is covered by EU Directive 2012/18/EU (the Seveso III Directive)
- The Hazardous Waste (England and Wales) Regulations 2005 apply in the UK

### 15.2 Chemical safety assessment

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## **SECTION 15: Regulatory information (....)**

- A REACH chemical safety assessment has not been carried out

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## **SECTION 16: Other information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Sources of data: from supplier SDS and ECHA databases

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2, H225:	Classification based on bridging principles of similar tested mixtures
Asp. Tox. 1, H304:	Classification based on calculation and concentration thresholds
Skin Irrit. 2, H315:	Classification based on calculation and concentration thresholds
Eye Dam. 1, H318:	Classification based on calculation and concentration thresholds
STOT SE 3, H336:	Classification based on calculation and concentration thresholds
Carc. 2, H351:	Classification based on calculation and concentration thresholds
Repr. 2, H361d:	Classification based on calculation and concentration thresholds
Aquatic Chronic 2, H411:	Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- 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
- 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
- EUH019: May form explosive peroxides
- EUH066: Repeated exposure may cause skin dryness or cracking

### **Acronyms**

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EL50: Effective Loading Rate resulting in 50% effect.
- GHS: Globally Harmonised System
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%

**SECTION 16: Other information (....)**

- LL50: Lethal Loading Rate resulting in 50% effect.
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- STOT RE: Specific Target Organ Toxicity Repeated Exposure
- STOT SE: Specific Target Organ Toxicity Single Exposure
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---

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