



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 13.03.2023

Version number: 1.00

Revision: 19.12.2022

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

- **1.1 Product identifier** For Industrial, professional and consumer use only
- **Trade name:** **Big Ben Scaffold Security Identification Paint Thinner**
- **Article number:** SOL054
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Surface Coating
- **Application of the substance / the mixture**  
Surface Coating  
Surface Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
Distributed by Leachs  
Beacon Park  
228 Holme Lacy Road  
Hereford, HR2 6BQ  
Tel: 01432 346800  
Email: sales@leachs.com  
www.leachs.com
- **Further information obtainable from:** sales@hmgpaint.com
- **1.4 Emergency telephone number:** +44 (0)161 205 7631 (business hours)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 2	H371	May cause damage to organs.
STOT RE 2	H373	May cause damage to the hearing organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.

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# Safety data sheet

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**Trade name: Guncleaner 401 (2702)**

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**· Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

**· Signal word Danger****· Hazard-determining components of labelling:**

propan-1-ol  
ethylbenzene  
Xylene  
Toluene

**· Hazard statements**

H225 Highly flammable liquid and vapour.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H371 May cause damage to organs.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P321 Specific treatment (see on this label).  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 Rinse mouth.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Additional information:**

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:**

108-88-3 Toluene

**· vPvB:**

108-88-3 Toluene

### SECTION 3: Composition/information on ingredients

**· 3.2 Chemical characterisation: Mixtures**

**· Description:** Mixture of substances listed below with nonhazardous additions.

**· Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx	Toluene ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412 PBT; vPvB	>10-≤25%
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		(Contd. of page 2)
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	>2.5-≤10%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>2.5-≤10%
CAS: 71-23-8 EINECS: 200-746-9 Reg.nr.: 01-2119486761-29-xxxx	propan-1-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; STOT SE 3, H336	>2.5-≤10%
CAS: 78-92-2 EINECS: 201-158-5 Reg.nr.: 01-2119475146-36	butanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335-H336	>2.5-≤10%
CAS: 79-20-9 EINECS: 201-185-2	methyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>2.5-≤10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	>2.5-≤10%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41-XXXX	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	>2.5-≤10%
CAS: 142-82-5 EINECS: 205-563-8	heptane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	>2.5-≤10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	Xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	>2.5-≤10%
CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44-xxxx	methanol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT SE 1, H370	>1-≤2.5%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	propan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>1-≤2.5%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38-xxxx	butanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	>1-≤2.5%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methyl ethyl ketone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>1-≤2.5%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-XXXX	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336	>1-≤2.5%
CAS: 109-60-4 EINECS: 203-686-1	propyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>1-≤2.5%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22	isobutyl acetate ⚠ Flam. Liq. 2, H225	>1-≤2.5%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	Butyl ethanoate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	>1-≤2.5%

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CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX	Ethyl Acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	>1-≤2.5%
CAS: 1634-04-4 EINECS: 216-653-1	tert-butyl methyl ether ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H311; ⚠ Skin Irrit. 2, H315	>1-≤2.5%
CAS: 109-99-9 EINECS: 203-726-8 Reg.nr.: 01-2119444314-46-XXXX	tetrahydrofuran ⚠ Flam. Liq. 2, H225; ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335	≤1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.

Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

· **5.3 Advice for firefighters**

· **Protective equipment:** Mount respiratory protective device.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Keep receptacles tightly sealed.  
Ensure good ventilation/extraction at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Hygiene measures:  
Wash hands before breaks and at the end of workday.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed and in a well-ventilated place.  
Keep away from heat.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

<b>108-88-3 Toluene</b>	
WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
<b>64-17-5 ethanol</b>	
WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
<b>67-63-0 propan-2-ol</b>	
WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
<b>71-23-8 propan-1-ol</b>	
WEL	Short-term value: 625 mg/m <sup>3</sup> , 250 ppm Long-term value: 500 mg/m <sup>3</sup> , 200 ppm Sk
<b>78-92-2 butanol</b>	
WEL	Short-term value: 462 mg/m <sup>3</sup> , 150 ppm Long-term value: 308 mg/m <sup>3</sup> , 100 ppm

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<b>79-20-9 methyl acetate</b>	
WEL	Short-term value: 770 mg/m <sup>3</sup> , 250 ppm Long-term value: 616 mg/m <sup>3</sup> , 200 ppm
<b>100-41-4 ethylbenzene</b>	
WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
<b>110-82-7 cyclohexane</b>	
WEL	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
<b>142-82-5 heptane</b>	
WEL	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
<b>67-56-1 methanol</b>	
WEL	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk
<b>67-64-1 propan-2-one</b>	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>71-36-3 butanol</b>	
WEL	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm Sk
<b>78-93-3 methyl ethyl ketone</b>	
WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
<b>108-10-1 4-methylpentan-2-one</b>	
WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk, BMGV
<b>109-60-4 propyl acetate</b>	
WEL	Short-term value: 1060 mg/m <sup>3</sup> , 250 ppm Long-term value: 849 mg/m <sup>3</sup> , 200 ppm
<b>110-19-0 isobutyl acetate</b>	
WEL	Short-term value: 903 mg/m <sup>3</sup> , 187 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
<b>123-86-4 Butyl ethanoate</b>	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
<b>141-78-6 Ethyl Acetate</b>	
WEL	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm Long-term value: 734 mg/m <sup>3</sup> , 200 ppm
<b>1634-04-4 tert-butyl methyl ether</b>	
WEL	Short-term value: 367 mg/m <sup>3</sup> , 100 ppm Long-term value: 183.5 mg/m <sup>3</sup> , 50 ppm
<b>109-99-9 tetrahydrofuran</b>	
WEL	Short-term value: 300 mg/m <sup>3</sup> , 100 ppm Long-term value: 150 mg/m <sup>3</sup> , 50 ppm Sk

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<b>· DNELs</b>		
<b>108-88-3 Toluene</b>		
Oral	DNEL	8.13 mg/day (Con)
Dermal	DNEL	226 mg/day (Con)
		384 mg/day (Ind)
Inhalative	DNEL	56.5 mg/m <sup>3</sup> (Con)
		192 mg/m <sup>3</sup> (Ind)
<b>64-17-5 ethanol</b>		
Oral	DNEL	87 mg/day (Con)
Dermal	DNEL	206 mg/day (Con)
		343 mg/day (Ind)
Inhalative	DNEL	114 mg/m <sup>3</sup> (Con)
		950 mg/m <sup>3</sup> (Ind)
<b>67-63-0 propan-2-ol</b>		
Oral	DNEL	26 mg/day (Con)
Dermal	DNEL	319 mg/day (Con)
		888 mg/day (Ind)
Inhalative	DNEL	89 mg/m <sup>3</sup> (Con)
		500 mg/m <sup>3</sup> (Ind)
<b>71-23-8 propan-1-ol</b>		
Oral	DNEL	61 mg/day (Con)
Dermal	DNEL	81 mg/day (Con)
		136 mg/day (Ind)
Inhalative	DNEL	80 mg/m <sup>3</sup> (Con)
		268 mg/m <sup>3</sup> (Ind)
<b>78-92-2 butanol</b>		
Oral	DNEL	15 mg/day (Con)
Dermal	DNEL	203 mg/day (Con)
		405 mg/day (Ind)
Inhalative	DNEL	52 mg/m <sup>3</sup> (Con)
		212 mg/m <sup>3</sup> (Ind)
<b>142-82-5 heptane</b>		
Oral	DNEL	149 mg/day (Con)
Dermal	DNEL	300 mg/day (Ind)
		447 mg/m <sup>3</sup> (Con)
Inhalative	DNEL	2,085 mg/m <sup>3</sup> (Ind)
<b>67-56-1 methanol</b>		
Oral	DNEL	8 mg/day (Con)
Dermal	DNEL	8 mg/day (Con)
		40 mg/day (Ind)
Inhalative	DNEL	50 mg/m <sup>3</sup> (Con)
		260 mg/m <sup>3</sup> (Ind)
<b>67-64-1 propan-2-one</b>		
Oral	DNEL	62 mg/day (Con)
Dermal	DNEL	62 mg/day (Con)
		186 mg/day (Ind)

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Inhalative	DNEL	200 mg/m <sup>3</sup> (Con) 1,210 mg/m <sup>3</sup> (Ind)
<b>71-36-3 butanol</b>		
Oral	DNEL	3,125 mg/day (Con)
Inhalative	DNEL	55 mg/m <sup>3</sup> (Con) 310 mg/m <sup>3</sup> (Ind)
<b>78-93-3 methyl ethyl ketone</b>		
Oral	DNEL	31 mg/day (Con)
Dermal	DNEL	412 mg/day (Con) 1,161 mg/day (Ind)
Inhalative	DNEL	106 mg/m <sup>3</sup> (Con) 600 mg/m <sup>3</sup> (Ind)
<b>108-10-1 4-methylpentan-2-one</b>		
Oral	DNEL	4.2 mg/day (Con)
Dermal	DNEL	4.2 mg/day (Con) 11.8 mg/day (Ind)
Inhalative	DNEL	14.7 mg/m <sup>3</sup> (Con) 83 mg/m <sup>3</sup> (Ind)
<b>109-60-4 propyl acetate</b>		
Dermal	DNEL	>2,000 mg/day (Rat)
Inhalative	DNEL	149 mg/m <sup>3</sup> (Con) 420 mg/m <sup>3</sup> (Ind)
<b>110-19-0 isobutyl acetate</b>		
Oral	DNEL	5 mg/day (Con)
Dermal	DNEL	5 mg/day (Con) 495 mg/day (Ind)
Inhalative	DNEL	35.7 mg/m <sup>3</sup> (Con) 300 mg/m <sup>3</sup> (Ind)
<b>123-86-4 Butyl ethanoate</b>		
Oral	DNEL	2 mg/day (Con)
Dermal	DNEL	6 mg/day (Con) 11 mg/day (Ind)
Inhalative	DNEL	35.7 mg/m <sup>3</sup> (Con) 300 mg/m <sup>3</sup> (Ind)
<b>141-78-6 Ethyl Acetate</b>		
Dermal	DNEL	37 mg/day (Con) 63 mg/day (Ind)
Inhalative	DNEL	367 mg/m <sup>3</sup> (Con) 734 mg/m <sup>3</sup> (Ind)
<b>109-99-9 tetrahydrofuran</b>		
Dermal	DNEL	15 mg/day (Con) 25 mg/day (Ind)
Inhalative	DNEL	62 mg/m <sup>3</sup> (Con) 150 mg/m <sup>3</sup> (Ind)

· **PNECs**

CAS No. 123-86-4 Butyl Acetate

Freshwater: 0.18 mg/l

Marine water: 0.018 mg/l

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Fresh water sediment: 0.981 mg/kg  
Marine sediment: 0.0981 mg/kg  
Soil: 0.0903 mg/kg  
STP (sewage-treatment plant): 35.6 mg/l  
Intermittent use/release: 0.36 mg/l

**· Ingredients with biological limit values:****78-93-3 methyl ethyl ketone**

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

**108-10-1 4-methylpentan-2-one**

BMGV	20 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: 4-methylpentan-2-one

· **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

· **Respiratory protection:** When spraying the product, use a respiratory protective device.

**· Protection of hands:**

When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product.



Protective gloves

**· Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>· Odour:</b>	Characteristic
<b>· Odour threshold:</b>	Not determined.

· **pH-value:** Not determined.

**· Change in condition**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	36 °C

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· <b>Flash point:</b>	-18 °C
· <b>Flammability (solid, gas):</b>	Highly flammable.
· <b>Ignition temperature:</b>	215 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.1 Vol %
· <b>Vapour pressure at 20 °C:</b>	29 hPa
· <b>Density at 20 °C:</b>	0.85 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	NOT MISCIBLE
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	100.0 %
<b>Solids content:</b>	0.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products when stored and handled correctly

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**

**108-88-3 Toluene**

Oral	LD50	5,580 mg/kg (Rat)
Dermal	LD50	5,000 mg/kg (Rab)
Inhalative	LC50/4 h	20 mg/l (Rat)

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<b>64-17-5 ethanol</b>		
Oral	LD50	10,470 mg/kg (Rat)
Dermal	LD50	15,800 mg/kg (Rat)
Inhalative	LC50/4 h	20 mg/l (rat)
<b>67-63-0 propan-2-ol</b>		
Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	13,900 mg/kg (Rab)
Inhalative	LC50/4 h	>25 mg/l (Rat)
<b>71-23-8 propan-1-ol</b>		
Oral	LD50	>500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rab)
Inhalative	LC50/4 h	9.8 mg/l (rat)
<b>78-92-2 butanol</b>		
Oral	LD50	5,054 mg/kg (Rat)
Inhalative	LC50/4 h	48.5 mg/l (Rat)
<b>79-20-9 methyl acetate</b>		
Oral	LD50	6,970 mg/kg (rat)
<b>100-41-4 ethylbenzene</b>		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)
<b>110-82-7 cyclohexane</b>		
Oral	LD50	12,705 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (Rab)
Inhalative	LC50/4 h	34,000 mg/l (Rat)
<b>1330-20-7 Xylene</b>		
Oral	LD50	4,300 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rab)
<b>67-56-1 methanol</b>		
Oral	LD50	100 mg/kg (rat)
Dermal	LD50	300 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (rat)
<b>67-64-1 propan-2-one</b>		
Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	7,400 mg/kg (rab)
Inhalative	LC50/4 h	76 mg/l (Rat)
<b>71-36-3 butanol</b>		
Oral	LD50	500 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>17.76 mg/l (rat)
<b>78-93-3 methyl ethyl ketone</b>		
Oral	LD50	2,193 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rab)
<b>108-10-1 4-methylpentan-2-one</b>		
Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	2 mg/l (rat)

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<b>109-60-4 propyl acetate</b>		
Oral	LD50	>2,000 mg/kg (Rat)
<b>110-19-0 isobutyl acetate</b>		
Oral	LD50	4,763 mg/kg (rbt)
Dermal	LD50	>17,400 mg/kg (rbt)
<b>123-86-4 Butyl ethanoate</b>		
Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	14,112 mg/kg (Rab)
Inhalative	LC50/4 h	23.4 mg/l (Rat)
<b>141-78-6 Ethyl Acetate</b>		
Oral	LD50	4,934 mg/kg (Rab)
Dermal	LD50	20,000 mg/kg (Rab)
Inhalative	LC50/4 h	1,600 mg/l (Rat)
<b>1634-04-4 tert-butyl methyl ether</b>		
Oral	LD50	4,000 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rbt)
Inhalative	LC50/4 h	142 mg/l (rat)
<b>109-99-9 tetrahydrofuran</b>		
Oral	LD50	1,650 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**  
Suspected of damaging the unborn child.
- **STOT-single exposure**  
May cause damage to organs.
- **STOT-repeated exposure**  
May cause damage to the hearing organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Acute Fish toxicity  
n-Butyl acetate  
LC50 18 mg/l  
Species: *Pimephales promelas* (fathead minnow)  
Exposure duration: 96 h  
  
Chronic Fish toxicity  
n-Butyl acetate  
No data available.

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Acute toxicity for daphnia  
n-Butyl acetate  
EC50 44 mg/l  
Species: *Daphnia* (water flea)  
Exposure duration: 48 h

Chronic toxicity to daphnia  
n-Butyl acetate  
NOEC 23 mg/l  
Species: *Daphnia magna* (Water flea)  
Exposure duration: 21 d  
Method: OECD Test Guideline 211

Acute toxicity for algae  
n-Butyl acetate  
EC50 675 mg/l  
Species: *Scenedesmus quadricauda* (Green algae)  
Exposure duration: 72 h

Acute bacterial toxicity  
EC50 356 mg/l  
Species: activated sludge  
Exposure duration: 40 h

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- 
- 12.5 Results of PBT and vPvB assessment**

· **PBT:**

108-88-3 Toluene

· **vPvB:**

108-88-3 Toluene

- 
- 12.6 Other adverse effects**
- No further relevant information available.

**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**· **14.1 UN-Number**· **ADR, IMDG, IATA**

UN1263

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p>1263 PAINT RELATED MATERIAL (vapour pressure at 50°C not more than 110 kPa), ENVIRONMENTALLY HAZARDOUS</p> <p>PAINT RELATED MATERIAL, MARINE POLLUTANT</p> <p>PAINT RELATED MATERIAL</p>
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- **14.3 Transport hazard class(es)**

- **ADR, IMDG**



<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids.</p> <p>3</p>
--	--------------------------------------

- **IATA**



<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>3 Flammable liquids.</p> <p>3</p>
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- **14.4 Packing group**

- **ADR, IMDG, IATA** II

- **14.5 Environmental hazards:**

<ul style="list-style-type: none"> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	<p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
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- **14.6 Special precautions for user**

<ul style="list-style-type: none"> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	<p>Warning: Flammable liquids.</p> <p>33</p> <p>F-E, S-E</p> <p>B</p>
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- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- **Transport/Additional information:**

- **ADR**

<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>5L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p>
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- **Transport category**

- **Tunnel restriction code** D/E

- **IMDG**

<ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>5L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p>
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- **UN "Model Regulation":**

UN 1263 PAINT RELATED MATERIAL (VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA), 3, II, ENVIRONMENTALLY HAZARDOUS

GB

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**SECTION 15: Regulatory information**· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t· **National regulations:**· **Technical instructions (air):**

Class	Share in %
I	2.0
NK	98.0

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Full text of H-Statements referred to under sections 2 and 3:**

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.

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.

H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Product safety department: LABORATORY· **Contact:** Health & Safety Officer· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (UK REACH)  
 PNEC: Predicted No-Effect Concentration (UK REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

GB