

**Safety Data Sheet**

according to UK REACH Regulation

**DINITROL 6110 Spray**

Revision date: 21.04.2021

Product code: 5098

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

DINITROL 6110 Spray

UFI: 0Q3F-F0KD-7008-3RAW

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

Bodyfiller/stopper

**Uses advised against**

No information available.

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

Company name:	DINOL GmbH	
Street:	Pyrmonter Strasse 76	
Place:	D-32676 Luegde	
Telephone:	+ 49 (0) 5281 982980	Telefax: + 49 (0) 5281 9829860
e-mail:	msds@dinol.com	
Contact person:	Labor	
Responsible Department:	msds@dinol.com	

**1.4. Emergency telephone number:** Giftnotruf Berlin: +49 30 30686 700 (Beratung in Deutsch und Englisch)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:  
Aerosol: Aerosol 1  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

acetone; propan-2-one; propanone  
butan-1-ol; n-butanol  
ethyl acetate  
n-butyl acetate

**Signal word:** Danger**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

**Additional advice on labelling**

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
74-98-6	propane			10 - < 15 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220 H280			
106-97-8	butane			10 - < 15 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Liquefied gas; H220 H280			
123-86-4	n-butyl acetate			10 - < 15 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
141-78-6	ethyl acetate			10 - < 15 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
67-64-1	acetone; propan-2-one; propanone			10 - < 15 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone			5 - < 10 %
	203-550-1	606-004-00-4	01-2119473980-30	
	Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335 EUH066			
1330-20-7	xylene			1 - < 5 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
9004-70-0	cellulose nitrate; nitrocellulose			1 - < 5 %
		603-037-00-6		
	Expl. 1.1; H201			
13463-67-7	Titanium dioxide			1 - < 5 %
	236-675-5		01-2119489379-17	
	Carc. 2; H351			
100-41-4	ethylbenzene			1 - < 5 %
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
71-36-3	butan-1-ol; n-butanol			1 - < 5 %
	200-751-6	603-004-00-6	01-2119484630-38	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H302 H315 H318 H335 H336			
141-32-2	n-butyl acrylate			< 1 %
	205-480-7	607-062-00-3	01-2119453155-43	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H226 H332 H312 H315 H319 H317 H335 H411			

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
106-97-8	203-448-7	butane	10 - < 15 %
		inhalation: LC50 = 273000 ppm (gases)	
123-86-4	204-658-1	n-butyl acetate	10 - < 15 %
		inhalation: LC50 = 23,4 mg/l (dusts or mists); dermal: LD50 = 14112 mg/kg; oral: LD50 = 10760 mg/kg	
141-78-6	205-500-4	ethyl acetate	10 - < 15 %
		inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = >20000 mg/kg; oral: LD50 = > 2000 mg/kg	
67-64-1	200-662-2	acetone; propan-2-one; propanone	10 - < 15 %
		inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg	
108-10-1	203-550-1	4-methylpentan-2-one, isobutyl methyl ketone	5 - < 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 2080 mg/kg	
1330-20-7	215-535-7	xylene	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >1700 mg/kg; oral: LD50 = 4300 mg/kg	
9004-70-0		cellulose nitrate; nitrocellulose	1 - < 5 %
		oral: LD50 = >2000 mg/kg	
13463-67-7	236-675-5	Titanium dioxide	1 - < 5 %
		inhalation: LC50 = > 6,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg	
100-41-4	202-849-4	ethylbenzene	1 - < 5 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg	
71-36-3	200-751-6	butan-1-ol; n-butanol	1 - < 5 %
		inhalation: LC50 = >17 mg/l (dusts or mists); dermal: LD50 = 3400 mg/kg; oral: LD50 = 790 mg/kg	
141-32-2	205-480-7	n-butyl acrylate	< 1 %
		inhalation: LC50 = 16 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2000 mg/kg; oral: LD50 = 3150 mg/kg	

**Further Information**

The homogeneous mixing of this product is controlled by continuous physical tests. Formerly dusty raw materials are completely integrated into the liquid/pasty mass. Possible AGW-values for solid substances are therefore not given, as there is no longer any risk of inhalation of these substances (when handling this mixture).

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.  
If unconscious place in recovery position and seek medical advice.

**After contact with skin**

Change contaminated clothing.  
Wash with plenty of water/Soap.  
If skin irritation occurs: Get medical advice/attention.

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#### **After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

#### **After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.  
Do NOT induce vomiting.

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

Nausea, Drowsiness, Headache.

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

No information available.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Water fog.

##### **Unsuitable extinguishing media**

High power water jet.

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

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.  
Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

#### **5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.  
Do not allow entering drains or surface water.

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

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

##### **General measures**

Remove all sources of ignition. Provide adequate ventilation.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wear personal protection equipment.  
Avoid contact with skin, eyes and clothes.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

##### **Other information**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

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

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

##### **Advice on safe handling**

Handle and open container with care.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Heating causes rise in pressure with risk of bursting.

##### **Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Remove contaminated, saturated clothing immediately.

Do not breathe gas/vapour/aerosol.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Do not keep the container sealed. Keep container dry.

Keep away from heat. Protect against direct sunlight.

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

No information available.

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

#### **8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
71-36-3	Butan-1-ol	50	154		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
141-32-2	n-Butyl acrylate	1	5		TWA (8 h)	WEL
		5	26		STEL (15 min)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-10-1	4-methylpentan-2-one	4-methylpentan-2-one	20 µmol/L	urine	Post shift
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
123-86-4	n-butyl acetate			
Worker DNEL, long-term		inhalation	systemic	480 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	960 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	480 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	960 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	102,34 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	859,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	102,34 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	859,7 mg/m <sup>3</sup>
141-78-6	ethyl acetate			
Worker DNEL, long-term		inhalation	systemic	734 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	1468 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	734 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	1468 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	63 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	367 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	734 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	37 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,5 mg/kg bw/day
67-64-1	acetone; propan-2-one; propanone			
Worker DNEL, long-term		inhalation	systemic	1210 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	2420 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	186 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	200 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	62 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	62 mg/kg bw/day
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone			
Worker DNEL, long-term		inhalation	systemic	83 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	208 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	11,8 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	208 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	83 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	14,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	155,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	14,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	155,2 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day



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1330-20-7	xylene			
Worker DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	289 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	174 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	77 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	108 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	174 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	174 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	14,8 mg/m <sup>3</sup>
13463-67-7	Titanium dioxide			
Worker DNEL, long-term		inhalation	local	10 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/day
100-41-4	ethylbenzene			
Worker DNEL, long-term		inhalation	systemic	77 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	293 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	180 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	15 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	1,6 mg/kg bw/day
71-36-3	butan-1-ol; n-butanol			
Worker DNEL, long-term		inhalation	local	310 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	3,125 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	55 mg/m <sup>3</sup>
141-32-2	n-butyl acrylate			
Worker DNEL, acute		dermal	local	0,28 mg/cm <sup>2</sup>
Worker DNEL, long-term		dermal	local	0,28 mg/cm <sup>2</sup>
Worker DNEL, long-term		inhalation	local	11 mg/m <sup>3</sup>

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
141-78-6	ethyl acetate	
Freshwater		0,24 mg/l
Marine water		0,024 mg/l
Freshwater sediment		1,15 mg/kg
Marine sediment		0,115 mg/kg
Secondary poisoning		0,20 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,148 mg/kg
67-64-1	acetone; propan-2-one; propanone	
Freshwater		10,6 mg/l
Marine water		1,06 mg/l
Freshwater sediment		30,4 mg/kg
Marine sediment		3,04 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		29,5 mg/kg
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	
Soil		1,3 mg/kg
Freshwater sediment		8,27 mg/kg
Marine sediment		0,83 mg/kg
Freshwater		0,6 mg/l
Micro-organisms in sewage treatment plants (STP)		27,5 mg/l
Marine water		0,06 mg/l
1330-20-7	xylene	
Freshwater		0,327 mg/l
Marine water		0,327 mg/l
Freshwater sediment		12,46 mg/kg
Marine sediment		12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
13463-67-7	Titanium dioxide	
Freshwater		0,184 mg/l
Marine water		0,0184 mg/l
Freshwater sediment		1000 mg/kg

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Marine sediment	100 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	100 mg/kg
100-41-4	ethylbenzene
Freshwater	0,1 mg/l
Marine water	0,01 mg/l
Freshwater sediment	13,7 mg/kg
Marine sediment	1,37 mg/kg
Secondary poisoning	0,02 mg/kg
Micro-organisms in sewage treatment plants (STP)	9,6 mg/l
Soil	2,68 mg/kg
71-36-3	butan-1-ol; n-butanol
Freshwater	0,082 mg/l
Marine water	0,0082 mg/l
Freshwater sediment	0,178 mg/kg
Marine sediment	0,0178 mg/kg
Micro-organisms in sewage treatment plants (STP)	2476 mg/l
Soil	0,015 mg/kg
141-32-2	n-butyl acrylate
Freshwater	0,00272 mg/l
Marine water	0,000272 mg/l
Freshwater sediment	0,0338 mg/kg
Marine sediment	0,00338 mg/kg
Micro-organisms in sewage treatment plants (STP)	3,5 mg/l
Soil	1 mg/kg

## 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Eye glasses with side protection (DIN EN 166)

#### Hand protection

Suitable gloves type:

Butyl caoutchouc (butyl rubber) Breakthrough time (maximum wearing time): 120 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves have to be replaced at the first sign of deterioration.

Protect skin by using skin protective cream.

#### Skin protection

Wear anti-static footwear and clothing

#### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.

gas filtering equipment (EN 141),. Filter material/medium: A/P2

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## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	light grey
Odour:	Solvent

#### Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not applicable
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	-20 °C

#### Flammability

Solid/liquid:	not applicable
Gas:	not applicable

#### Explosive properties

not determined

Lower explosion limits:	1,2 vol. %
Upper explosion limits:	13 vol. %
Auto-ignition temperature:	365 °C

#### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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#### Oxidizing properties

not determined

pH-Value:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined

Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
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#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	4000 hPa
Density (at 20 °C):	0,820 g/cm <sup>3</sup>
Bulk density:	not applicable
Relative vapour density:	not determined

### 9.2. Other information

#### Other safety characteristics

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Solvent separation test:	not determined
Solvent content:	76,60 %
Solid content:	23,40 %
Evaporation rate:	not determined

**Further Information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Keep away from heat. Ignition hazard.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

Carbon monoxide

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
106-97-8	butane				
	inhalation (4 h) gas	LC50 ppm	273000	Rat	GESTIS
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	10760	Rat	
	dermal	LD50 mg/kg	14112	Rabbit	
	inhalation (4 h) aerosol	LC50	23,4 mg/l	Rat	
141-78-6	ethyl acetate				
	oral	LD50 mg/kg	> 2000	Rabbit	
	dermal	LD50 mg/kg	>20000	Rabbit	
	inhalation (4 h) vapour	LC50	30 mg/l	Rat	
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 mg/kg	5800	Rat	RTECS
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID
	inhalation (4 h) vapour	LC50	76 mg/l	Rat	
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone				
	oral	LD50 mg/kg	2080	Rat	RTECS
	dermal	LD50 mg/kg	>2000	Rat	IUCLID
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
1330-20-7	xylene				
	oral	LD50 mg/kg	4300	Rat	GESTIS
	dermal	LD50 mg/kg	>1700	Rabbit	GESTIS
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		
9004-70-0	cellulose nitrate; nitrocellulose				
	oral	LD50 mg/kg	>2000	Rat	
13463-67-7	Titanium dioxide				
	oral	LD50 mg/kg	> 5000	Rat	
	dermal	LD50 mg/kg	> 5000	Rabbit	
	inhalation (4 h) aerosol	LC50 mg/l	> 6,8	Rat	
100-41-4	ethylbenzene				
	oral	LD50 mg/kg	3500	Rat	GESTIS

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	dermal	LD50 mg/kg	15400	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat		
	inhalation aerosol	ATE	1,5 mg/l			
71-36-3	butan-1-ol; n-butanol					
	oral	LD50 mg/kg	790	Rat	GESTIS	
	dermal	LD50 mg/kg	3400	Rabbit	GSETIS	
	inhalation (4 h) aerosol	LC50	>17 mg/l	Rat		
141-32-2	n-butyl acrylate					
	oral	LD50 mg/kg	3150	Rat	GESTIS	
	dermal	LD50 mg/kg	2000	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	16 mg/l	Rat	GESTIS	
	inhalation aerosol	ATE	1,5 mg/l			

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

Repeated exposure may cause skin dryness or cracking.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Further information**

There are no data available on the preparation/mixture itself.

**SECTION 12: Ecological information**
**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50 18 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 mg/l 647,7	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 44 mg/l	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC 200 mg/l		Desmodesmus subspicatus		
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50 230 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 mg/l 3300		Desmodesmus subspicatus	48 h	
	Acute crustacea toxicity	EC50 717 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(2900 mg/l)		Pseudomonas putida	16 h	
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50 mg/l 5540	96 h	Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 mg/l 8800	48 h	Daphnia Magna		
	Algae toxicity	NOEC mg/l 4740	2 d	Selenastrum capricornutum		
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone					
	Acute fish toxicity	LC50 179 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute crustacea toxicity	EC50 mg/l >200	48 h	Daphnia magna	IUCLID	
	Crustacea toxicity	NOEC mg/l 30-35	21 d	Daphnia magna		
1330-20-7	xylene					
	Acute fish toxicity	LC50 780 mg/l	96 h			
9004-70-0	cellulose nitrate; nitrocellulose					
	Acute fish toxicity	LC50 mg/l >5000	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 mg/l >10000	72 h			
	Acute crustacea toxicity	EC50 mg/l >10000	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>10000 mg/l)				
71-36-3	butan-1-ol; n-butanol					
	Acute fish toxicity	LC50 mg/l 1740	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 mg/l >500	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l 1980	48 h		GESTIS	
	Acute bacteria toxicity	(2250 mg/l)		Pseudomonas putida	16 h	



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141-32-2	n-butyl acrylate					
	Acute fish toxicity	LC50	5,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	5,5 mg/l	96 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	8,2 mg/l	48 h	Daphnia magna (Big water flea)	

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
123-86-4	n-butyl acetate			
	OECD 301D/ EEC 92/69/V, C.4-E	83%	28	
	Readily biodegradable (according to OECD criteria).			
141-78-6	ethyl acetate			
	OECD 301D/ EEC 92/69/V, C.4-E	100 %	28	
	Readily biodegradable (according to OECD criteria).			
67-64-1	acetone; propan-2-one; propanone			
	OECD 301 B	91%	28	
	Readily biodegradable (according to OECD criteria).			
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone			
	OECD 301 F	83 %	28	
	Readily biodegradable (according to OECD criteria).			
9004-70-0	cellulose nitrate; nitrocellulose			
	OECD 301 B	20%	28	
	Poorly biodegradable.			

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
123-86-4	n-butyl acetate	2,3
141-78-6	ethyl acetate	0,73
67-64-1	acetone; propan-2-one; propanone	-0,24
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	1,38
1330-20-7	xylene	3
9004-70-0	cellulose nitrate; nitrocellulose	<0
100-41-4	ethylbenzene	3,15
71-36-3	butan-1-ol; n-butanol	0,88
141-32-2	n-butyl acrylate	2,36

**BCF**

CAS No	Chemical name	BCF	Species	Source
67-64-1	acetone; propan-2-one; propanone	<10		
1330-20-7	xylene	25,9	Oncorhynchus mykiss (Rainbow trout)	

**12.4. Mobility in soil**

There are no data available on the mixture itself.

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#### 12.5. Results of PBT and vPvB assessment

not applicable

#### 12.7. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation. Do not mix with other wastes.

List of proposed waste codes/waste designations in accordance with EWC:

##### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

##### Contaminated packaging

Remove according to the regulations.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Transport category: 2  
 Tunnel restriction code: D

#### Other applicable information (land transport)

E0

#### Marine transport (IMDG)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Marine pollutant: no

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Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	1000 mL
Excepted quantity:	E0
EmS:	F-D, S-U

#### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	UN1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1



Special Provisions:	A145 A167 A802
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

#### Other applicable information (air transport)

E0  
Passenger-LQ: Y203

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning: Gases under pressure

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

#### Other applicable information

Stowage Code:  
SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:  
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28

2004/42/EC (VOC): 76,6 % (628 g/l)

#### Additional information

Observe in addition any national regulations!  
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to

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chemical agents at work

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"

#### Relevant H and EUH statements (number and full text)

H201	Explosive; mass explosion hazard.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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EUH212

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*