

**Aluminium-Spray TOP 396 (S703215)**

Revision: 11.11.2024

Product code: TOP\_396

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

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UFI: YQN1-V095-D00J-1K6Q

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

Corrosion inhibitors. Paint, Varnish.

**Uses advised against**

Do not use in cavities.

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

Company name:	E.I.S. GmbH & Co. KG	
	EUROTEC	
Street:	Von-Hünefeld-Strasse 97	
Place:	D-50829 Köln	
Telephone:	0221 / 59797 - 41	Telefax: 0221 / 59797 - 73
E-mail:	info@eis-verband.de	
Contact person:	Dirk Niermann	Telephone: +49 221 59797-41
E-mail:	d.niermann@eis-verband.de	
Internet:	www.eis-verband.de	

**1.4. Emergency telephone number:**

Giftzentrum Berlin, Tel. +49 30-19240

**Further Information**

Follow the instructions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aerosol 1; H222-H229

Eye Irrit. 2; H319

STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Acetone

N-butyl acetate

Ethyl acetate

1-methoxy-2-propanol; monopropylene glycol methyl ether

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

H222

Extremely flammable aerosol.

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H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

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/protective clothing/eye protection/face protection/hearing 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.

**Additional advice on labelling**

Classification according to Regulation (EC) No 1272/2008 [CLP]

**Labelling of packages where the contents do not exceed 125 ml**

Signal word: Danger

Pictograms:


**Hazard statements**

H222-H229

**Precautionary statements**

P210-P211-P251-P410+P412

**2.3. Other hazards**

Wear suitable protective clothing, gloves and eye/face protection.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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

Active substance mixture with propellant. Mixture of substances listed below with nonhazardous additions:

according to Regulation (EC) No 1907/2006

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**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
67-64-1	Acetone			25 - < 75 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
74-98-6	propane			< 15 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Press. Gas (Comp.); H220 H280			
75-28-5	Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))			< 15 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Press. Gas (Comp.); H220 H280			
123-86-4	N-butyl acetate			< 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 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			< 15 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336			
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol			< 5 %
	204-626-7	603-016-00-1	01-2119473975-21	
	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3; H226 H319 H335			
	reaction mass of ethylbenzene and xylene			0 - < 3 %
	905-588-0		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			< 3 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
64742-48-9	Naphtha (petroleum), hydrotreated heavy			0 - < 3 %
	265-150-3	649-327-00-6		
	Flam. Liq. 3, Asp. Tox. 1; H226 H304			
1330-20-7	xylene			< 3 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			

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	
67-64-1	200-662-2	Acetone	25 - < 75 %
		inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg	
123-86-4	204-658-1	N-butyl acetate	< 15 %
		inhalation: LC50 = > 23,4 mg/l (dusts or mists); dermal: LD50 = 14112 mg/kg; oral: LD50 = 14130 mg/kg	
141-78-6	205-500-4	Ethyl acetate	< 10 %
		inhalation: LC50 = 200 mg/l (dusts or mists); dermal: LD50 = > 20000 mg/kg; oral: LD50 = 4934 mg/kg	
107-98-2	203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	< 15 %
		dermal: LD50 = 11000 mg/kg; oral: LD50 = > 5000 mg/kg	
123-42-2	204-626-7	4-hydroxy-4-methylpentan-2-one, diacetone alcohol	< 5 %
		dermal: LD50 = 13630 mg/kg; oral: LD50 = 2520 mg/kg Eye Irrit. 2; H319: >= 10 - 100	
	905-588-0	reaction mass of ethylbenzene and xylene	0 - < 3 %
		inhalation: LC50 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 mg/kg STOT RE 2; H373: >= 10 - 100	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	< 3 %
		inhalation: LC50 = > 25 mg/l (vapours); inhalation: LC50 = > 20 mg/l (dusts or mists); dermal: LD50 = 12882,2 mg/kg; oral: LD50 = 5840 mg/kg Eye Irrit. 2; H319: >= 10 - 100 STOT SE 3; H336: >= 20 - 100	
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy	0 - < 3 %
		inhalation: LC50 = > 4,96 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
1330-20-7	215-535-7	xylene	< 3 %
		inhalation: LC50 = 19,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg; oral: LD50 = 5000 mg/kg	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

First aider: Pay attention to self-protection! In all cases of doubt, or when symptoms persist, seek medical advice. Remove contaminated, saturated clothing immediately. Remove persons to safety. Keep away from unprotected people. Keep upwind. Ventilate affected area.

## After inhalation

Provide fresh air. Seek medical attention if problems persist.  
Remove casualty to fresh air and keep warm and at rest.

## After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Remove contaminated clothing immediately and dispose off safely.  
Seek medical attention if problems persist.

## After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyelids open. Protect the injured eye. Rinse also under the lid of the eyelid. In case of troubles or persistent symptoms, consult an ophthalmologist.

## After ingestion

No usual way of intake because of aerosol.

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

No further relevant information available.

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

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Water spray jet.**Unsuitable extinguishing media**

High power water jet.

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

In case of fire and/or explosion do not breathe fumes.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Organic cracking products. aldehydes.**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

**Additional information**

Contaminated fire-fighting water must be collected separately. Co-ordinate fire-fighting measures to the fire surroundings.

Dispose of fire residues and extinguishing water in accordance with official regulations.

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

Move undamaged containers from immediate hazard area if it can be done safely.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

**For non-emergency personnel**

Remove persons to safety. Keep away from unprotected people. Keep upwind.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

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

Cover drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

**Other information**

Ventilate affected area.

**6.4. Reference to other sections**

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13.

Safe handling: see section 7. Personal protection equipment: see section 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas. Do not use in cavities. Keep away from sources of ignition - No smoking.

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Flammable vapours can accumulate in steam space of closed systems.

Avoid contact with skin and eyes. Do not breathe gas/vapour/aerosol.

**Advice on protection against fire and explosion**

Extremely flammable aerosol. Pressurized container: May burst if heated. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Remove all sources of ignition. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**Advice on general occupational hygiene**

Work in well-ventilated zones or use proper respiratory protection. Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work. Restore grease film of the skin after cleansing by using a fat cream to prevent dermatitis.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

**Further information on handling**

Heating causes rise in pressure with risk of bursting.

After use replace the closing cap immediately.

**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.

The official regulations for the storage of compressed gas packages must be observed.

**Hints on joint storage**

Do not store together with: Food and feedingstuffs, Water.

**Further information on storage conditions**

Protect against: heat. UV-radiation/sunlight. frost. moisture. Ignition hazard.

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

Corrosion inhibitors. Paint, Varnish. Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	
		150	568		STEL (15 min)	
67-64-1	Acetone	500	1210		TWA (8 h)	
141-78-6	Ethyl acetate	200	734		TWA (8 h)	
		400	1468		STEL (15 min)	
123-86-4	n-Butyl acetate	50	241		TWA (8 h)	
		150	723		STEL (15 min)	
1330-20-7	Xylene, mixed isomers, pure	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

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### DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
67-64-1	Acetone			
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
123-86-4	N-butyl acetate			
Worker DNEL, long-term		inhalation	systemic	300 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	600 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	300 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	600 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	35,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	300 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	35,7 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	300 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2 mg/kg bw/day
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		inhalation	local	367 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	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
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
Worker DNEL, acute		inhalation	systemic	553,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	33 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	78 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	183 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	43,9 mg/m <sup>3</sup>

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Worker DNEL, acute	inhalation	local	553,5 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	systemic	369 mg/m <sup>3</sup>
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol		
Consumer DNEL, long-term	dermal	systemic	33 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,67 mg/kg bw/day
Worker DNEL, acute	inhalation	local	240 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	467 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	32,6 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	5,8 mg/m <sup>3</sup>
	reaction mass of ethylbenzene and xylene		
Worker DNEL, long-term	inhalation	systemic	221 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	442 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	221 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	442 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	212 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	65,3 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	260 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	65,3 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	260 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	12,5 mg/kg bw/day
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol		
Worker DNEL, long-term	inhalation	systemic	500 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	89 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	26 mg/kg bw/day
64742-48-9	Naphtha (petroleum), hydrotreated heavy		
Worker DNEL, long-term	inhalation	local	837,5 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	systemic	1,9 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	1066,67 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	0,41 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	1286,4 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	1152 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	178,57 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	640 mg/m <sup>3</sup>



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### PNEC values

CAS No	Name of agent	
Environmental compartment		Value
67-64-1	Acetone	
Freshwater		10,6 mg/l
Freshwater (intermittent releases)		21 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
123-86-4	N-butyl acetate	
Freshwater		0,18 mg/l
Freshwater (intermittent releases)		0,36 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,098 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,09 mg/kg
141-78-6	Ethyl acetate	
Freshwater		0,24 mg/l
Freshwater (intermittent releases)		1,65 mg/l
Marine water		0,024 mg/l
Freshwater sediment		1,15 mg/kg
Marine sediment		0,115 mg/kg
Secondary poisoning		200 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,148 mg/kg
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	
Freshwater		10 mg/l
Freshwater (intermittent releases)		100 mg/l
Marine water		1 mg/l
Freshwater sediment		52,3 mg/kg
Marine sediment		5,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		4,59 mg/kg
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol	
Freshwater		2 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,2 mg/l
Freshwater sediment		7,4 mg/kg
Marine sediment		0,74 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l

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Soil	0,3 mg/kg
reaction mass of ethylbenzene and xylene	
Freshwater	0,327 mg/l
Freshwater (intermittent releases)	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
67-63-0 propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater	140,9 mg/l
Freshwater (intermittent releases)	140,9 mg/l
Marine water	140,9 mg/l
Freshwater sediment	552 mg/kg
Marine sediment	552 mg/kg
Secondary poisoning	160 mg/kg
Micro-organisms in sewage treatment plants (STP)	2251 mg/l
Soil	28 mg/kg

**Additional advice on limit values**

The lists valid during the making were used as basis.

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities. Have eye showers and safety shower ready.

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

**Eye/face protection**

Tightly sealed safety glasses. EN 166

**Hand protection**

Before starting work, apply solvent-resistant skincare preparations.

Tested protective gloves are to be worn: EN ISO 374

The most suitable glove should be chosen in consultation with the glove supplier / manufacturer who can provide information on the breakthrough time of the glove material.

Breakthrough times and swelling properties of the material must be taken into consideration. Observe the wear time limits as specified by the manufacturer. 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.

permanent contact - Recommended material: Butyl rubber. NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene rubber). penetration time (maximum wearing period): 10 - 480 min.

**Skin protection**

Protective clothing: Body protection must be selected depending on the activity and possible impact. EN 13034/6

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable

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respiratory protective equipment: Self-contained respirator (breathing apparatus).

**Thermal hazards**

Extremely flammable aerosol. Pressurized container: May burst if heated.

**Environmental exposure controls**

Discharge into the environment must be avoided. Do not allow uncontrolled discharge of product into the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Aerosol
Colour:	silver
Odour:	like: Acetone
Odour threshold:	not determined

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 34 °C
Flammability:	Extremely flammable aerosol. Pressurized container: May burst if heated.

Lower explosion limits:	1,7 vol. %
Upper explosion limits:	13,0 vol. %
Flash point:	< 0 °C
Auto-ignition temperature:	470 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	Immiscible
Solubility in other solvents:	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	8300 hPa
(at 20 °C)	
Vapour pressure:	not determined
Density (at 20 °C):	0,78 g/cm³
Relative vapour density:	not determined

**Test method**

Active agent

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

not Explosive.

In use, may form flammable/explosive vapour-air mixture.

**Self-ignition temperature**

Solid:

not self-igniting

Gas:

not self-igniting

**Oxidizing properties**

not determined

**Other safety characteristics**

Evaporation rate:	not determined
Solvent content:	> 80,4 - < 82,4%
Viscosity / dynamic:	not determined

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

heat. UV-radiation/sunlight. frost. moisture. Ignition hazard.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to the escape of irritating gases and vapors.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Organic cracking products. aldehydes.

**Further information**

In case of exceeding the storage temperature: >50 °C Danger of bursting container.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-64-1	Acetone				
	oral	LD50 mg/kg 5800	Rat	RTECS	
	dermal	LD50 mg/kg 20000	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50 76 mg/l	Rat		
123-86-4	N-butyl acetate				
	oral	LD50 mg/kg 14130	Rat	Publication (1954)	acute oral toxicity test
	dermal	LD50 mg/kg 14112	Albino rabbit	ECHA	OECD 402
	inhalation (4 h) dust/mist	LC50 mg/l > 23,4	Rat (Rattus).	ECHA	OECD 403
141-78-6	Ethyl acetate				
	oral	LD50 mg/kg 4934	Rabbit	Ind. Med. Vol. 41, No.4, 31 - 33 (1972)	OECD Guideline 401
	dermal	LD50 mg/kg > 20000	Rabbit	Am Ind Hyg Ass J, 23, 95 (1962)	Similar to one day cuff method of Draize
	inhalation (1 h) dust/mist	LC50 200 mg/l	Rat (Rattus).	ECHA	Standard acute method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 mg/kg > 5000	Rat	IUCLID	
	dermal	LD50 mg/kg 11000	Rabbit		
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol				
	oral	LD50 mg/kg 2520	Rat		
	dermal	LD50 mg/kg 13630	Rabbit		
	reaction mass of ethylbenzene and xylene				
	oral	LD50 mg/kg 3523	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 mg/kg 12126	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50 6700 mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975)	EU Method B.2
	inhalation dust/mist	ATE 1,5 mg/l			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 mg/kg 5840	Ratte (Rattus).	ECHA	OECD 401
	dermal	LD50 mg/kg 12882,2	Kaninchen	ECHA	OECD 402
	inhalation vapour	LC50 > 25 mg/l	Ratte (Rattus).	MSDS	OECD 403
	inhalation (4 h) dust/mist	LC50 > 20 mg/l	Ratte (Rattus).	MSDS / ECHA	OECD 403
64742-48-9	Naphtha (petroleum), hydrotreated heavy				

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	oral	LD50 mg/kg	> 5000	Rat	Study report (1986)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1986)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 mg/l	> 4,96	Rat	Study report (1992)	OECD Guideline 403
1330-20-7	xylene					
	oral	LD50 mg/kg	5000	Rat	GESTIS	
	dermal	ATE mg/kg	1100			
	inhalation (4 h) vapour	LC50	19,8 mg/l	Rat	GESTIS	
	inhalation dust/mist	ATE	1,5 mg/l			

**Irritation and corrosivity**

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

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

Repeated exposure may cause skin dryness or cracking.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects 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: Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause drowsiness or dizziness. (Acetone)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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

Leakage into the environment must be prevented.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-64-1	Acetone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna	
123-86-4	N-butyl acetate					
	Acute fish toxicity	LC50	18 mg/l	96 h	Pimephales promelas	Publication (1984) OECD Guideline 203
	Acute algae toxicity	ErC50	397 mg/l	72 h	Scenedesmus subspicatus	ECHA OECD 201
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia sp.	Publication (1959) OECD Guideline 202
	Algae toxicity	NOEC	196 mg/l	3 d	Scenedesmus subspicatus	ECHA OECD 201
	Crustacea toxicity	NOEC	23,2 mg/l	21 d	Daphnia magna	Study report (2000) OECD Guideline 211
	Acute bacteria toxicity	EC50 ( )	356 mg/l		Crayfish (Tetrahymena pyriformis)	ECHA TETRATOX; Schultz, 2006
141-78-6	Ethyl acetate					
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas	Publication (1984) other: US EPA method E03-05
	Acute algae toxicity	ErC50 mg/l	5600	72 h	Scenedesmus subspicatus	ECHA OECD 201
	Acute crustacea toxicity	EC50	165 mg/l	48 h	Daphnia cucullata (helmet water flea)	ECHA DIN 38412 / part 11
	Fish toxicity	NOEC mg/l	< 9,65	32 d	Pimephales promelas	<a href="http://www.epa.gov/ecotox">http://www.epa.gov/ecotox</a> (1992) OECD Guideline 210
	Algae toxicity	NOEC mg/l	> 100	3 d	Desmodesmus subspicatus	OECD 201
	Crustacea toxicity	NOEC	2,4 mg/l	21 d	Daphnia magna	Water Research 23: 501-510. (1989) other: see principles of method below
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50	4600 - 10000 mg/l	96 h	Leuciscus idus	IUCLID
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Selenastrum capricornutum	
	Acute crustacea toxicity	EC50 mg/l	> 500	48 h	Daphnia magna	IUCLID
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol					
	Acute fish toxicity	LC50	420 mg/l	96 h	Lepomis macrochirus	
	reaction mass of ethylbenzene and xylene					
	Acute fish toxicity	LC50	8,4 mg/l	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety. OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety. OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 3,4	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3 other: US EPA 600/4-91-003

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	Fish toxicity	NOEC > 1,3 mg/l	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC 1,17 mg/l	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	EC50 > 175 mg/l ( )	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 10000 mg/l	96 h	Pimephales promelas	Publication (1983)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna (Großer Wasserfloh)	ECHA / SDS	OECD 202
64742-48-9	Naphtha (petroleum), hydrotreated heavy					
	Acute fish toxicity	LL50 8,2 mg/l	96 h	Pimephales promelas	Study report (1995)	other: EPA 66013-75-009
	Acute algae toxicity	ErC50 3,1 mg/l	72 h	Raphidocelis subcapitata	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EL50 4,5 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Fish toxicity	NOEC 2,6 mg/l	21 d	Daphnia magna	Study report (1999)	other: OECD Guideline 211
	Crustacea toxicity	NOEC 2,6 mg/l	21 d	Daphnia magna	Study report (1999)	OECD Guideline 211
1330-20-7	xylene					
	Acute algae toxicity	ErC50 3,2 mg/l	72 h	Selenastrum capricornutum	Galassi et al. 1988	

**12.2. Persistence and degradability**

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
123-86-4	N-butyl acetate			
	DOC reduction	> 70 %		OECD 301E/ EEC 92/69/V, C.4-B
	OECD 301E	> 98 %	28	SDS
	OECD 301D	83 %	28	ECHA
141-78-6	Ethyl acetate			
	DOC reduction	69 %	20	ECHA
	OECD 301B: CO2 Evolution Test	94 %	28	ECHA
	BOD 5 (20 °C):	79 %	20	ECHA
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	Verordnung (EG) Nr. 440/2008, Anhang C.5 (BSB)	53 %	5	ECHA / SDS
	Leicht biologisch abbaubar (nach OECD-Kriterien).			
	OECD 301E	95 %	21	SDS
	Leicht biologisch abbaubar (nach OECD-Kriterien).			

**12.3. Bioaccumulative potential**

No data available



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## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	Acetone	-0,24
74-98-6	propane	2,36
75-28-5	Isobutane (<0.1% 1,3-butadiene (EINECS 203-450-8))	2,8
123-86-4	N-butyl acetate	200
141-78-6	Ethyl acetate	0,68
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437
123-42-2	4-hydroxy-4-methylpentan-2-one, diacetone alcohol	1,03
	reaction mass of ethylbenzene and xylene	3,2
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
1330-20-7	xylene	3,15

## BCF

CAS No	Chemical name	BCF	Species	Source
123-86-4	N-butyl acetate	15	aquatic species	ECHA
141-78-6	Ethyl acetate	30	Leuciscus idus melanotus	Chemosphere 14, 1589
	reaction mass of ethylbenzene and xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No data available

## Further information

Doesn't get into the sewage water as long as the process is carried out according to regulations.  
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.  
slightly hazardous to water (WGK 1)

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

## Disposal recommendations

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation.  
Smaller quantities can be disposed of together with household waste.  
Large amounts: Must not be disposed together with household garbage. Do not empty into drains.

## List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

## List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

## List of Wastes Code - contaminated packaging

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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**

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation. Completely emptied packages can be recycled. Recycle sales packaging via DSD (Duales System Deutschland).

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

14.1. UN number or ID number: UN 1950  
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  
 Excepted quantity: E0  
 Transport category: 2  
 Tunnel restriction code: D

**Inland waterways transport (ADN)**

14.1. UN number or ID number: UN 1950  
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  
 Excepted quantity: E0

**Marine transport (IMDG)**

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



Marine pollutant: Nein  
 Special Provisions: 63 190 277 327 344 381 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0

according to Regulation (EC) No 1907/2006

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EmS: F-D, S-U

**Air transport (ICAO-TI/ATA-DGR)****14.1. UN number or ID number:**

UN 1950

**14.2. UN proper shipping name:**

DRUCKGASPACKUNGEN, ENTZÜNDBAR

**14.3. Transport hazard class(es):**

2.1

**14.4. Packing group:**

-

Hazard label:

2.1



Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y203

Excepted quantity:

E0

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning

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

No data available

**Other applicable information**

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

**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 40, Entry 75

Directive 2004/42/EC on VOC in  
paints and varnishes: >702,3-<717,6 g/lInformation according to Directive  
2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant  
disappearances and thefts should be reported to the relevant national contact point.**Additional information**

REACH Regulation (EC) No 1907/2006, as last amended by Commission Regulation (EU) 2024/1328.

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2024/2865.

In the following under "NK" all volatile organic substances are quantitatively summed up, which according to  
chapter 5.2.5 of the TA-Luft are neither Class I nor Class II.Ordinance on the incentive tax on volatile organic compounds (1 January 2009) VOCV (CH): > 83,49 - < 83,89  
%**National regulatory information**

according to Regulation (EC) No 1907/2006

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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):

1 - slightly hazardous to water

**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): 15.

**Abbreviations and acronyms**

Flam. Gas 1: Flammable gases, hazard category 1

Aerosol 1: Aerosols, hazard category 1

Press. Gas (Comp.): Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

Asp. Tox. 1: Aspiration hazard, hazard category 1

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches

Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße) IMDG: International

Maritime Code for Dangerous Goods (Internationaler Seeschiffahrtscode für gefährliche Güter) IATA:

International Air Transport Association (Internationaler Luftverkehrsverband) GHS: Global harmonisiertes

System zur Einstufung und Kennzeichnung von Chemikalien EINECS: Europäisches Verzeichnis der auf dem

Markt vorhandenen chemischen Stoffe ELINCS: European List of Notified Chemical Substances CAS:

Chemical Abstracts Service LC50: Tödliche Konzentration, 50% LD50: Tödliche Dosis, 50%

**Key literature references and sources for data**

Information from our suppliers as well as data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used for the preparation of this safety data sheet.

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

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

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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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H373

May cause damage to organs through prolonged or repeated exposure.

EUH066

Repeated exposure may cause skin dryness or cracking.

## Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. This information is intended to give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal.

The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

## Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Coatings and paints, thinners, paint removers, Industrial spraying, Non industrial spraying	-	3, 22	9a	7, 11	-	-	-	Aerosol

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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