

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### BLAUGELB ZINK-SPRAY HELL (250059)

Revision date: 22.05.2023

Product code: 250059

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

##### 1.1. Product identifier

BLAUGELB ZINK-SPRAY HELL (250059)

UFI: 4PHA-3QRR-300S-X950

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

###### Use of the substance/mixture

Metal surface treatment products, including galvanic and electroplating products. Paint, Varnish.

###### Uses advised against

Do not use in cavities.

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

Company name:	Meesenburg Großhandel KG	
Street:	Westerallee 162	
Place:	24941 Flensburg	
Telephone:	+49 (0) 461-5808-0	Telefax: +49 (0) 461-5808-1101
E-mail:	stuttgart@meesenburg.de	
Contact person:	Frau Weingärtner	
E-mail:	stuttgart@meesenburg.de	
Internet:	www.meesenburg.de	
Responsible Department:	Produktmanagement	

##### 1.4. Emergency telephone number:

Giftnotruf München: +49 (0) 89-19240 (24h) (deutsch und englisch)

##### Further Information

Restricted to professional users. Safety data sheet available for professional user on request. 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  
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

###### Hazard components for labelling

Ethyl acetate  
 Acetone  
 Naphtha, Hydrocarbons, C9, aromatics  
 Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics

Signal word: Danger

###### Pictograms:



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#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### 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.
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.
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#### 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-H412

#### 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

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))			25 - < 50 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Compressed gas; H220 H280			
74-98-6	propane			10 - < 25 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Compressed gas; H220 H280			
141-78-6	Ethyl acetate			10 - < 25 %
	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			10 - < 25 %
	200-662-2	606-001-00-8	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
1330-20-7	Xylene			1 - < 5 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Asp. Tox. 1; H226 H332 H312 H315 H304			
	Naphtha, Hydrocarbons, C9, aromatics			1 - < 5 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066			
7429-90-5	Aluminium			1 - < 5 %
	231-072-3		01-2119529243-45	
	Flam. Sol. 1; H228			
64742-48-9	Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics			1 - < 5 %
	919-857-5	649-327-00-6	01-2119463258-33	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066			
7440-66-6	zinc powder - zinc dust (stabilized)			1 - < 5 %
	231-175-3	030-001-01-9	01-2119467174-37	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

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 (<0.1% butadiene (EINECS 203-450-8))	25 - < 50 %
		inhalation: LC50 = 50 - 658 mg/l (dusts or mists); dermal: LD50 = 5000 mg/kg; oral: LD50 = 5000 mg/kg	
74-98-6	200-827-9	propane	10 - < 25 %
		inhalation: LC50 = > 20 mg/l (dusts or mists)	
141-78-6	205-500-4	Ethyl acetate	10 - < 25 %
		inhalation: LC50 = 200 mg/l (dusts or mists); dermal: LD50 = > 20000 mg/kg; oral: LD50 = 4934 mg/kg	
67-64-1	200-662-2	Acetone	10 - < 25 %
		inhalation: LC50 = > 60 mg/l (vapours); dermal: LD50 = > 7426 mg/kg; oral: LD50 = 5800 mg/kg	
1330-20-7	215-535-7	Xylene	1 - < 5 %
		inhalation: LC50 = 29 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 1700 mg/kg; oral: LD50 = 3523 mg/kg	
	918-668-5	Naphtha, Hydrocarbons, C9, aromatics	1 - < 5 %
		dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 6800 mg/kg STOT SE 3; H335: >= 20 - 100 STOT SE 3; H336: >= 20 - 100	
7429-90-5	231-072-3	Aluminium	1 - < 5 %
		oral: LD50 = > 15900 mg/kg	
64742-48-9	919-857-5	Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics	1 - < 5 %
		inhalation: LC50 = > 4,96 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg STOT SE 3; H336: >= 20 - 100	
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	1 - < 5 %
		inhalation: LC50 = 5,41 mg/l (dusts or mists); oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	

**Further Information**

The labeling of an aspiration hazard (Asp. Tox. 1 H304) is for aerosol dispensers and containers with sealed sprayer not required (Regulation (EC) 1272/2008, Annex 1, 1.3.3).

**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. Never give anything by mouth to an unconscious person or a person with cramps. If victim is at risk of losing consciousness, position and transport on their side.

**After inhalation**

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. 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.

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#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately. Medical treatment necessary.

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

The following symptoms may occur: difficulties of breathing. Headache. Dizziness. Dizziness. Coughing. Nausea. Inhalation causes narcotic effects/intoxication.

#### 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. alcohol resistant foam. Water mist.

##### Unsuitable extinguishing media

High power water jet.

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

Heating causes rise in pressure with risk of bursting. Thermal decomposition can lead to the escape of irritating gases and vapors. 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.

#### 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. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of fire residues and extinguishing water in accordance with official regulations. Co-ordinate fire-fighting measures to the fire surroundings.

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

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

##### 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. Do not rinse down with water.

##### 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.

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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.  
Flammable vapours can accumulate in head space of closed systems.  
Avoid contact with skin and eyes. Do not breathe gas/vapour/aerosol.

#### Advice on protection against fire and explosion

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. Do not spray on naked flames or any incandescent material. Remove all sources of ignition.

#### 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. Take recovery periods for skin regeneration. 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. Oxidizing agents.  
Note joint storage restrictions of Technical Rules TRGS 509 and TRGS 510.

#### Further information on storage conditions

Protect against: heat. UV-radiation/sunlight. frost. moisture.  
Observe the storage regulations of the TRGS 300 for flammable aerosols.

### 7.3. Specific end use(s)

Metal surface treatment products, including galvanic and electroplating products. 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
67-64-1	Acetone	500	1210		TWA (8 h)	
141-78-6	Ethyl acetate	200	734		TWA (8 h)	
		400	1468		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
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
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
1330-20-7	Xylene			
Worker DNEL, long-term		inhalation	local	221 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	65,3 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	442 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	442 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	221 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	212 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	260 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	260 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	65,3 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day
	Naphtha, Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		inhalation	systemic	150 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	32 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	11 mg/kg bw/day
7429-90-5	Aluminium			
Worker DNEL, long-term		inhalation	systemic	3,72 mg/m <sup>3</sup>

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Worker DNEL, long-term	inhalation	local	3,72 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	7,9 mg/kg bw/day
64742-48-9	Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics		
Worker DNEL, acute	inhalation	systemic	1286,4 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	837,5 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	1066,67 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>
Worker DNEL, long-term	inhalation	systemic	1,9 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,41 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	300 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	300 mg/kg bw/day
7440-66-6	zinc powder - zinc dust (stabilized)		
Consumer DNEL, long-term	oral	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,5 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	systemic	5 mg/m <sup>3</sup>



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**PNEC values**

CAS No	Name of agent		Value
Environmental compartment			
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
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
1330-20-7	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
7429-90-5	Aluminium		
Micro-organisms in sewage treatment plants (STP)			20 mg/l
7440-66-6	zinc powder - zinc dust (stabilized)		
Freshwater			0,0206 mg/l
Marine water			0,0061 mg/l
Freshwater sediment			235,6 mg/kg
Marine sediment			121 mg/kg
Micro-organisms in sewage treatment plants (STP)			0,1 mg/l
Soil			106,8 mg/kg

**Additional advice on limit values**

Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept (CAS 141-78-6; 67-64-1)

H: skin resorptive (CAS 1330-20-7)

**8.2. Exposure controls**

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**Appropriate engineering controls**

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

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Tightly sealed safety glasses. EN 166

**Hand protection**

Protect skin by using skin protective cream. 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.

**Skin protection**

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

**Respiratory protection**

During spraying wear suitable respiratory equipment.

**Thermal hazards**

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

**Environmental exposure controls**

Leakage into the environment must be prevented. Do not allow uncontrolled leakage 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: Solvent
Odour threshold:	not determined
Melting point/freezing point:	- 187,6 °C
Boiling point or initial boiling point and boiling range:	- 42,1 °C
Flammability:	Extremely flammable aerosol.
Lower explosion limits:	1,1 vol. %
Upper explosion limits:	15 vol. %
Flash point:	-100 °C
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	Immiscible
Solubility in other solvents:	
not determined	

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Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	4200 hPa
Vapour pressure:	not determined
Density (at 20 °C):	0,686 g/cm <sup>3</sup>
Relative vapour density:	not determined
Particle characteristics:	not determined

#### 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

Viscosity / dynamic:

not determined

##### Further Information

94 % by mass of the contents are flammable.

Temperature Class (EU/ATEX): T3 (maximum permissible surface temperature of the equipment = 200 ° C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

The mixture contains reactive substance(s).

### 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

Oxidizing agents.

### 10.6. Hazardous decomposition products

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

##### 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 preparation/mixture itself.

The method of classification of the mixture is based on the components of the mixture: Additivity formula

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**Acute toxicity**

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

Not excessively toxic.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) 27500 mg/kg; ATE (inhalation vapour) 275,0 mg/l; ATE (inhalation dust/mist) 37,50 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))				
	oral	LD50 mg/kg	5000	Rat (Rattus).	MSDS
	dermal	LD50 mg/kg	5000	Rabbit	MSDS
	inhalation (4 h) dust/mist	LC50 mg/l	50 - 658	Rat (Rattus).	MSDS
74-98-6	propane				
	inhalation (4 h) dust/mist	LC50	> 20 mg/l	Rat (Rattus).	MSDS
141-78-6	Ethyl acetate				
	oral	LD50 mg/kg	4934	Rabbit	Ind. Med. Vol. 41, No.4, 31 - 33 (1972)
	dermal	LD50 mg/kg	> 20000	Rabbit	Am Ind Hyg Ass J, 23, 95 (1962)
	inhalation (1 h) dust/mist	LC50	200 mg/l	Rat (Rattus).	ECHA
					Standard acute method
67-64-1	Acetone				
	oral	LD50 mg/kg	5800	Rat	J Toxicol Environ Health 15: 609-621 (19)
	dermal	LD50 mg/kg	> 7426	Rabbit	Toxicol Appl Pharmacol 7: 559-565. (1965)
	inhalation (1 h) vapour	LC50	> 60 mg/l	Rat (Rattus).	ECHA
					Toxicol Appl Pharmacol 61: 27-38
1330-20-7	Xylene				
	oral	LD50 mg/kg	3523	Rat	Study report (1986)
	dermal	LD50 mg/kg	> 1700	Rabbit	Raw Material Data Handbook, Vol.1: Organ
	inhalation (4 h) vapour	LC50	29 mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975)
	inhalation dust/mist	ATE	1,5 mg/l		
	Naphtha, Hydrocarbons, C9, aromatics				
	oral	LD50 mg/kg	> 6800	Rat	
	dermal	LD50 mg/kg	> 3160	Rabbit	Study report (1984)
					OECD Guideline 402
7429-90-5	Aluminium				
	oral	LD50 mg/kg	> 15900	Rat	Study report (1969)
					OECD Guideline 401
64742-48-9	Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, <2% aromatics				
	oral	LD50 mg/kg	> 5000	Rat	Study report (1986)
					OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rabbit	Study report (1986)
					OECD Guideline 402

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	inhalation (4 h) vapour	LC50 mg/l	> 4,96	Rat	Study report (1992)	OECD Guideline 403
7440-66-6	zinc powder - zinc dust (stabilized)					
	oral	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 401
	inhalation (4 h) dust/mist	LC50	5,41 mg/l	Rat (Rattus).	SDS	

#### Irritation and corrosivity

Causes serious eye irritation.

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

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

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.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No further relevant information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Leakage into the environment must be prevented.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))					
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	USEPA OPPT Risk Assessment Division (200) Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200) Calculation using ECOSAR Program v1.00.
74-98-6	propane					
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	USEPA OPPT Risk Assessment Division (200) Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200) Calculation using ECOSAR Program v1.00.
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
67-64-1	Acetone					
	Acute fish toxicity	LC50 mg/l	8120	96 h	Pimephales promelas	Publication (1984) OECD Guideline 203
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978) The toxicity of acetone towards daphnids
	Algae toxicity	NOEC	430 mg/l	4 d	Prorocentrum minimum (Armoured Geisler)	ECHA Arch Environ Contam Toxicol 41: 123-128
	Crustacea toxicity	NOEC mg/l	2212	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310 Study conducted comparable to OECD 211 w
	Acute bacteria toxicity	(EC50 mg/l)	61150	0,5 h	activated sludge of a predominantly domestic sewage	Water Res 26: 887-892 (1992) ISO 8192
1330-20-7	Xylene					

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	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
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	other: US EPA 600/4-91-003
	Acute bacteria toxicity	(EC50 mg/l)	> 175	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (	OECD Guideline 209
<b>Naphtha, Hydrocarbons, C9, aromatics</b>							
	Acute fish toxicity	LL50	9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50	7,9 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2006)	OECD Guideline 201
	Acute crustacea toxicity	EC50	3,2 mg/l	48 h	Daphnia magna	Study report (1994)	OECD Guideline 202
	Fish toxicity	NOEC mg/l	1,228	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC mg/l	2,144	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
<b>7429-90-5 Aluminium</b>							
	Acute fish toxicity	LC50 mg/l	6,17	96 h	Oncorhynchus mykiss	Canadian Journal of Fisheries and Aquati	Juvenile rainbow trout were exposed to f
	Acute algae toxicity	ErC50 mg/l	0,0169	72 h	Pseudokirchneriella subcapitata	Study report (2009)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,72	48 h	Ceriodaphnia dubia	Study report (1992)	other: USEPA 1985. Methods for measuring
	Fish toxicity	NOEC	0,4 mg/l	7 d	Pimephales promelas	Study report (1992)	other: USEPA 1989. Short-term Methods fo
	Crustacea toxicity	NOEC mg/l	1,02	6 d	Ceriodaphnia dubia	Study report (1992)	other: US EPA
<b>64742-48-9 Naphtha, hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclic, &lt;2% aromatics</b>							
	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



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	Crustacea toxicity	NOEC	2,6 mg/l	21 d	Daphnia magna	Study report (1999)	OECD Guideline 211
7440-66-6	zinc powder - zinc dust (stabilized)						
	Acute fish toxicity	LC50 mg/l	0,315	96 h	Thymallus arcticus	Ecotoxicology and environmental safety 2	other: American Society for testing matr
	Acute algae toxicity	ErC50 mg/l	0,527	96 h	Algae		
	Acute crustacea toxicity	EC50 mg/l	>= 0,147	48 h	Ceriodaphnia dubia	ECHA	various
	Fish toxicity	NOEC mg/l	0,044	72 d	Oncorhynchus mykiss	Trans. Am. Fish. Soc. 111, 70-77 (1982)	lab -designed dose response test with sm
	Algae toxicity	NOEC mg/l	0,1902	2 d	Macrocystis pyrifera	Mar Environ Res 26(2):113-134 (1988)	16-d and 2-d toxicity test to early life
	Crustacea toxicity	NOEC mg/l	0,031	50 d	Daphnia magna	Aquatic Toxicology 12,273-290 (1988)	chronic tests were performed for an exte
	Acute bacteria toxicity	(EC50	5,2 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Water research volume 17, nr10, 1363-136	OECD Guideline 209

**12.2. Persistence and degradability**

No further relevant information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
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
67-64-1	Acetone			
	OECD 301B: CO2 Evolution Test	90,9 %	28	ECHA
	Readily biodegradable (according to OECD criteria).			
	Theoretischer Sauerstoffbedarf (ThSB): BOD-test	84 %	5	ECHA
	Readily biodegradable (according to OECD criteria).			
1330-20-7	Xylene			
	OECD 301F	98 %	28	study report (2015)
	Readily biodegradable (according to OECD criteria).			
	Naphtha, Hydrocarbons, C9, aromatics			
	OECD 301F	78 %	28	ECHA
	Readily biodegradable (according to OECD criteria).			
	OECD 301B	56 %	28	ECHA
	Not readily biodegradable (according to OECD criteria)			
	OECD 301D	21 %	28	ECHA
	Not readily biodegradable (according to OECD criteria)			

**12.3. Bioaccumulative potential**

No further relevant information available.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
106-97-8	Butane (<0.1% butadiene (EINECS 203-450-8))	1,09 - 2,89
74-98-6	propane	2,31
141-78-6	Ethyl acetate	0,68
67-64-1	Acetone	-0,23
1330-20-7	Xylene	3,12 - 3,2

**BCF**

CAS No	Chemical name	BCF	Species	Source
141-78-6	Ethyl acetate	30	Leuciscus idus melanotus	Chemosphere 14, 1589
67-64-1	Acetone	3		Unpublished calculat
1330-20-7	Xylene	> 5,5 - < 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
7440-66-6	zinc powder - zinc dust (stabilized)	28960	Palaemon elegans	Hydrobiologia 174,24

**12.4. Mobility in soil**

No further relevant information 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 further relevant information available.

**Further information**

Doesn't get into the sewage water as long as the process is carried out according to regulations. Do not allow uncontrolled discharge of product into the environment.  
hazardous to water (WGK 2)

**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. Must not be disposed together with household garbage. Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself.

**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**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**Contaminated packaging**

Completely emptied packings can be re-cycled. Only take completely empty aerosol cans to the recycling

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collection. Recycle sales packaging via DSD (Duales System Deutschland). Return cans that are not completely empty to the collection point for household chemicals.

#### 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:** AEROSOLS  
**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  
 EmS: F-D, S-U

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

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

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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 transport as bulk according to IBC Code.

**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

2004/42/EC (VOC):	95,5 % (655,2 g/l)
Subcategory according to Directive 2004/42/EC:	Special finishes - All types, VOC limit value: 840 g/l

Information according to 2012/18/EU (SEVESO III):	P3a FLAMMABLE AEROSOLS
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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**

This product contains a substance(s) listed under Regulation (EU) 2019/1148. As the product contains > 5 components, following §3 (13) and the guidance (2020/C210/01) according to expert judgement: the homogeneous mixture cannot be effectively separated. => no obligation for tracking.

REACH Regulation (EC) No 1907/2006, as last amended by Commission Regulation (EU) 2022/586

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2021/1962

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.

**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.
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Water hazard class (D):	2 - obviously hazardous to water
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**15.2. Chemical safety assessment**

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

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#### SECTION 16: Other information

##### Abbreviations and acronyms

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%  
 Flam. Gas: Flammable gases  
 Aerosol: Aerosols  
 Compressed gas: Compressed gas  
 Flam. Liq: Flammable liquid  
 Flam. Sol: Flammable solid  
 Acute Tox: Acute toxicity  
 Asp. Tox: Aspiration hazard  
 Skin Irrit: Skin irritation  
 Eye Irrit: Eye irritation  
 STOT SE: Specific target organ toxicity - single exposure  
 Aquatic Acute: Acute aquatic hazard  
 Aquatic Chronic: Chronic aquatic hazard

##### 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
Aquatic Chronic 3; H412	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.  
 H228 Flammable solid.  
 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.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH066 Repeated exposure may cause skin dryness or cracking.

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#### 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

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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