

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

Printing date 17.05.2021

Revision: 17.05.2021

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

· **1.1 Product identifier**

· **Trade name:** *Metaflux 70-43 Zinc Sheen Spray*

· **UFI:** *XT72-N0WS-1006-MYW6*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*

· **Application of the substance / the mixture** *Paint Spray*

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

· **Manufacturer/Supplier:**

*TECHNO-SERVICE GmbH*

*Detmolder Strasse 515*

*D-33605 Bielefeld*

*Tel.: +49 (0)521 92 444 0*

*Fax: +49 (0)521 207432*

*info@metaflux.de*

*www.metaflux.de*

**Further information obtainable from:**

*info@metaflux.de*

**1.4 Emergency telephone number:**

*+49 (0) 70024112112 or +1 8725888271 (TSF) 24h*

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

*Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.*

*Skin Irrit. 2 H315 Causes skin irritation.*

*Eye Irrit. 2 H319 Causes serious eye irritation.*

*STOT SE 3 H336 May cause drowsiness or dizziness.*

*Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.*

*Aquatic Acute 1 H400 Very toxic to aquatic life.*

*Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.*

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

*The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).*

*The product is classified and labelled according to the CLP regulation.*

· **Hazard pictograms**



GHS02

GHS07

GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*xylene*

*Acetone*

*ethylbenzene*

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**Trade name: Metaflux 70-43 Zinc Sheen Spray**

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**Hazard statements**H222-H229 *Extremely flammable aerosol. Pressurised container: May burst if heated.*H315 *Causes skin irritation.*H319 *Causes serious eye irritation.*H336 *May cause drowsiness or dizziness.*H410 *Very toxic to aquatic life with long lasting effects.***Precautionary statements**P102 *Keep out of reach of children.*P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*P211 *Do not spray on an open flame or other ignition source.*P251 *Do not pierce or burn, even after use.*P260 *Do not breathe vapours/spray.*P271 *Use only outdoors or in a well-ventilated area.*P280 *Wear protective gloves / eye protection.*P302+P352 *IF ON SKIN: Wash with plenty of soap and water.*P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*P314 *Get medical advice/attention if you feel unwell.*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.*P501 *Dispose of container with content as special waste.***Additional information:**

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

**2.3 Other hazards****Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:**

Mixture of substances listed below with nonhazardous compounds or compounds with no duty to declare.

**Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 7440-66-6 EINECS: 231-175-3	zinc powder -zinc dust (stabilized) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥10-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	≥10-<15%
CAS: 1330-20-7 EINECS: 215-535-7	xylene ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	≥2.5-<10%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<2.5%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised) ⚠ Flam. Sol. 1, H228; Water-react. 2, H261	≤2.5%

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Trade name: **Metaflux 70-43 Zinc Sheen Spray**

CAS: 64742-82-1

EC number: 919-446-0

Reg.nr.: 01-2119458049-33

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).

⚠ Flam. Liq. 3, H226; ⚠ STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336

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&lt;0.25%

· **Additional information:**

EC-Numbers beginning with "9" are numbers given by ECHA for the purpose of registration according REACH. Eventually mentioned CAS-numbers valid for countries which are not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents. For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

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

· **After swallowing:**

If product is swallowed (normally not possible) DO NOT induce vomiting. DANGER OF ASPIRATION. Search for medical help..

Do not induce vomiting; call for medical help immediately.

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

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

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

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

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

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

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

Risk of bursting in case of fire heat

· **5.3 Advice for firefighters**

· **Protective equipment:**

Mouth respiratory protective device.

Wear fully protective suit.

· **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

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

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- Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C
- **Storage class:** German storage class: 2B (Aerosols)
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

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

**115-10-6 dimethyl ether**

WEL (Great Britain)	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm

**67-64-1 Acetone**

WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

**1330-20-7 xylene**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**100-41-4 ethylbenzene**

WEL (Great Britain)	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
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IOELV (EU)	Short-term value: 884 mg/m <sup>3</sup> , 200 ppm Long-term value: 442 mg/m <sup>3</sup> , 100 ppm Skin
<b>64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).</b>	
RCP-TWA (Great Britain)	Short-term value: 300 mg/m <sup>3</sup> , 52 ppm Long-term value: 150 mg/m <sup>3</sup> EXXON Mobil
TWA (Great Britain)	Short-term value: 100 ppm ACGIH

**· DNELs****67-64-1 Acetone**

Oral	DNEL Endverbraucher/ Consumers / Consommateur	62 mg/kg BW/day (.)
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	62 mg/kg BW/day (.)
	DNEL Arbeiter / Workers/ Travailleur	186 mg/kg BW/day (.)
Inhalative	DNEL Endverbraucher/ Consumers / Consommateur	200 mg/m <sup>3</sup> (.)
	DNEL Arbeiter / Workers/ Travailleur	1,210 mg/m <sup>3</sup> (.)

**1330-20-7 xylene**

Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	108 mg/kg BW/day (.) Langfristig - systemische Wirkungen
	DNEL Arbeiter / Workers/ Travailleur	180 mg/kg BW/day (.) langfristig, systemische Wirkungen
Inhalative	DNEL Endverbraucher/ Consumers / Consommateur	174 mg/m <sup>3</sup> (.) Akute - systemische Wirkungen und Akut - lokale Wirkungen
	DNEL Arbeiter / Workers/ Travailleur	14.8 mg/m <sup>3</sup> (hum) Langfristig - systemische Wirkungen
	DNEL Arbeiter / Workers/ Travailleur	77 mg/m <sup>3</sup> (.) Langfristig - systemische Wirkungen
	DNEL Arbeiter / Workers/ Travailleur (acut)	289 mg/m <sup>3</sup> (.) Akut systemische Wirkungen und Akut - lokale Wirkungen

**· Ingredients with biological limit values:****1330-20-7 xylene**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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**· Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

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· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Half- or full mask with filter type A2-P2/3

· **Protection of hands:**

Protective gloves

· **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

> 480 min / 0,4 mm thickness

· **Eye protection:**

Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

· <b>Form:</b>	Aerosol
· <b>Colour:</b>	Grey
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	-24.9 °C value concerns to propellant

· **Flash point:** -42 °C  
concerns to propellant

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 240 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

· **Explosion limits:**

· <b>Lower:</b>	1.1 Vol %
· <b>Upper:</b>	18.6 Vol %

· **Vapour pressure:** Not determined.

· **Pressure (20°C) at 20 °C** 3-5 bar

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· <b>Density at 20 °C:</b>	0.949 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	ca. 23 %
<b>VOC (EC)</b>	72.79 %
· <b>9.2 Other information</b>	
<b>Additional information</b>	Vapors are heavier than air.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **10.3 Possibility of hazardous reactions**  
By use or incidental release the formation of explosive vapor/air mixtures is possible.
- **10.4 Conditions to avoid**  
Temperatures >50°C  
Avoid the use in the near of ignition sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Stable for a storage time of min. 24 months

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

<b>115-10-6 dimethyl ether</b>		
Inhalative	LC50/4 h	308 mg/l (rat)
<b>67-64-1 Acetone</b>		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,400 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)
<b>1330-20-7 xylene</b>		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
<b>100-41-4 ethylbenzene</b>		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

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**1314-13-2 zinc oxide**

Oral	LD50	>5,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
irritant  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****1330-20-7 xylene**

EC 50 / 48h	165 mg / l (daphnia)
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LC 50 / 96 h	26.7 mg / l (Flathead Minnow /Elritze)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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

empty cans: material recycling

filled cans: remove in accordance with local regulations

Hand over to hazardous waste disposers.

· **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
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16 05 00 gases in pressure containers and discarded chemicals

16 05 04\* gases in pressure containers (including halons) containing hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p align="center">UN1950</p>
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p align="center">1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (zinc powder -zinc dust (stabilized), zinc oxide), MARINE POLLUTANT AEROSOLS, flammable</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 2.5F Gases. · <b>Label</b> 2.1</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 2.1 · <b>Label</b> 2.1</p>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">  </div> <p>· <b>Class</b> 2.1 · <b>Label</b> 2.1</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p align="center">Void</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	<p align="center">Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Code</b></li> </ul>	<p align="center">Warning: Gases. - F-D,S-U 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. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1</p>
<ul style="list-style-type: none"> <li>· <b>Segregation Code</b></li> </ul>	<p align="center">Segregation as for class 9. Stow "separated from" class 1</p>

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	<p>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.</p>
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>Remarks:</b>	Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombus with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgross weight) or more. Hazardous goods under the transport regulations listed above may be subject to special regulations. For details please consult the relevant transport regulations
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E1 Hazardous to the Aquatic Environment

P3a FLAMMABLE AEROSOLS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

67-64-1 Acetone

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· **National regulations:**

· **Information about limitation of use:**

*Employment restrictions concerning juveniles must be observed.*

*Employment restrictions concerning pregnant and lactating women must be observed.*

*Employment restrictions concerning women of child-bearing age must be observed.*

Class	Share in %
NK	22.8

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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

· **Relevant phrases**

*H220 Extremely flammable gas.*

*H225 Highly flammable liquid and vapour.*

*H226 Flammable liquid and vapour.*

*H228 Flammable solid.*

*H261 In contact with water releases flammable gases.*

*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.*

*H372 Causes damage to organs through prolonged or repeated exposure.*

*H373 May cause damage to organs through prolonged or repeated exposure.*

*H400 Very toxic to aquatic life.*

*H410 Very toxic to aquatic life with long lasting effects.*

*H411 Toxic to aquatic life with long lasting effects.*

· **Abbreviations and acronyms:**

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

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*DNEL: Derived No-Effect Level (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Gas 1A: Flammable gases – Category 1A*

*Aerosol 1: Aerosols – Category 1*

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

*Flam. Liq. 2: Flammable liquids – Category 2*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Flam. Sol. 1: Flammable solids – Category 1*

*Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

*STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

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

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*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*  
· **\* Data compared to the previous version altered.**

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