

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.01.2023

Revision: 10.01.2023

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

· 1.1 Product identifier

· **Trade name:** *Metaflux 70-45 Zinc-Spray*

· **UFI:** *2J72-40UK-300Q-NY50*

· 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 RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

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

GHS08

GHS09

· **Signal word** *Danger*

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

xylene

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

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 1)

Hazard statementsH222-H229 *Extremely flammable aerosol. Pressurised container: May burst if heated.*H315 *Causes skin irritation.*H319 *Causes serious eye irritation.*H373 *May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.*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.*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.*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	25-50%
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: 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	≥0.25-<2.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	≤2.5%

(Contd. on page 3)


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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: **Metaflux 70-45 Zinc-Spray**CAS: 1314-13-2
EINECS: 215-222-5

zinc oxide

 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

(Contd. of page 2)

≥0.25-<2.5%

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Take affected persons out into the fresh air.
Do not leave affected persons unattended.

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **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..

If symptoms persist consult doctor.

· **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:**

CO₂, 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**

Can form explosive gas-air mixtures.

Risk of bursting in case of fire heat

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:** 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**

Wear protective equipment. Keep unprotected persons away.

Keep sources of ignition (flames, sparks, etc.) away. Do not use engines near by (potential source of ignition)

· **6.2 Environmental precautions:**

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

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

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.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: **Metaflux 70-45 Zinc-Spray**

(Contd. of page 3)

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**
 Keep ignition sources away - Do not smoke.
 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 ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm

67-64-1 Acetone

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

1330-20-7 xylene

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

100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).

RCP-TWA (Great Britain)	Short-term value: 300 mg/m ³ , 52 ppm Long-term value: 150 mg/m ³ EXXON Mobil
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(Contd. on page 5)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 4)

<i>TWA (Great Britain)</i>	<i>Short-term value: 100 ppm</i> <i>ACGIH</i>
108-65-6 2-methoxy-1-methylethyl acetate	
<i>WEL (Great Britain)</i>	<i>Short-term value: 548 mg/m³, 100 ppm</i> <i>Long-term value: 274 mg/m³, 50 ppm</i> <i>Sk</i>
<i>IOELV (EU)</i>	<i>Short-term value: 550 mg/m³, 100 ppm</i> <i>Long-term value: 275 mg/m³, 50 ppm</i> <i>Skin</i>

· DNELs**67-64-1 Acetone**

<i>Oral</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	<i>62 mg/kg BW/day (.)</i>
<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	<i>62 mg/kg BW/day (.)</i>
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	<i>186 mg/kg BW/day (.)</i>
<i>Inhalative</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	<i>200 mg/m³ (.)</i>
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	<i>1,210 mg/m³ (.)</i>

1330-20-7 xylene

<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	<i>108 mg/kg BW/day (.)</i> <i>Langfristig - systemische Wirkungen</i>
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	<i>180 mg/kg BW/day (.)</i> <i>langfristig, systemische Wirkungen</i>
<i>Inhalative</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	<i>174 mg/m³ (.)</i> <i>Akute - systemische Wirkungen und Akut - lokale Wirkungen</i>
		<i>14.8 mg/m³ (hum)</i> <i>Langfristig - systemische Wirkungen</i>
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	<i>77 mg/m³ (.)</i> <i>Langfristig - systemische Wirkungen</i>
	<i>DNEL Arbeiter / Workers/ Travailleur (acut)</i>	<i>289 mg/m³ (.)</i> <i>Akut systemische Wirkungen und Akut - lokale Wirkungen</i>

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).

<i>Oral</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	<i>26 mg/kg BW/day (.)</i> <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets</i>
<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	<i>26 mg/kg BW/day (.)</i> <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets</i>
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	<i>44 mg/kg BW/day (.)</i> <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets</i>

(Contd. on page 6)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 5)

Inhalative	DNEL Endverbraucher/ Consumers / Consommateur	71 mg /m3 (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets
	DNEL Arbeiter / Workers/ Travailleur	330 mg /m3 (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets

· **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.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.



Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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

GB

(Contd. on page 7)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Aerosol
· Colour:	Grey
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not applicable.

· Change in condition

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

· Flash point: -42 °C
concerns to propellant

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 226 °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.
In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

· Lower:	2.6 Vol %
· Upper:	18.6 Vol %
· Pressure (20°C) at 20 °C	3.5-5.0 bar

· Density at 20 °C: 0.98 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

· Dynamic: Not determined.

· Kinematic: Not determined.

· Solvent content:

· Organic solvents:	ca. 25 %
· VOC (EC)	69.73 %

· Solids content: ca. 30 %

· 9.2 Other information

· Additional information: Vapors are heavier than air.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability In case of fire the formation of toxic decomposition products.

(Contd. on page 8)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 7)

- **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:**

115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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67-64-1 Acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,400 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)

1330-20-7 xylene

Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure:
Inhalation.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

GB

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: **Metaflux 70-45 Zinc-Spray**

(Contd. of page 8)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1330-20-7 xylene

EC 50 / 48h 165 mg / l (daphnia)

LC 50 / 96 h 26.7 mg / l (Flathead Minnow /Elritze)

· **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

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

· 14.1 UN-Number

· **ADR, IMDG, IATA**

UN1950

· 14.2 UN proper shipping name

· **ADR**· **IMDG**

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (zinc powder -zinc dust (stabilized), Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).), MARINE POLLUTANT

· **IATA**

AEROSOLS, flammable

(Contd. on page 10)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: *Metaflux 70-45 Zinc-Spray*

(Contd. of page 9)

· **14.3 Transport hazard class(es)**· **ADR**

· **Class** 2 5F Gases.
· **Label** 2.1

· **IMDG**

· **Class** 2.1
· **Label** 2.1

· **IATA**

· **Class** 2.1
· **Label** 2.1

· **14.4 Packing group**· **ADR, IMDG, IATA** Void· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics,
aromatics (2-25%).

· **Marine pollutant:** Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **EMS Number:**

F-D,S-U

· **Stowage Code**

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:
Category A. For AEROSOLS with a capacity above 1 litre:
Category B. For WASTE AEROSOLS: Category C, Clear
of living quarters.

· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1
except for division 1.4.

For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· **14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

(Contd. on page 11)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: Metaflux 70-45 Zinc-Spray

(Contd. of page 10)

· Transport category	2
· Tunnel restriction code	D
· Remarks:	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
· IMDG	
· Limited quantities (LQ)	IL
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	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	24.7

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

GB

(Contd. on page 12)

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

Printing date: 10.01.2023

Revision: 10.01.2023

Trade name: **Metaflux 70-45 Zinc-Spray**

(Contd. of page 11)

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.
- 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
- 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
- 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.**