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

- · 1.1 Product identifier
- · Trade name: Metaflux 70-42 ALU-ZINC
- · **UFI**: 6U82-R06H-Q005-J2VY
- · 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.	
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 Chronic 2	H411	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 attachmend (Regulation (EC) 1272/2008, Annex I, 1.3.3).

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

· Hazard pictograms









GHS07 GHS02

GHS08

GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

xylene Acetone ethylbenzene

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1-methoxy-2-propanol

· 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.

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

Toxic to aquatic life with long lasting effects.

· Precautionary statements

H411

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor 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: 75-28-5	Isobutane ($< 0.1 \% 1.3$ -butadiene)	25-50%
EINECS: 200-857-2	🔷 Flam. Gas 1A, H220; Press. Gas (Liq.), H280	
Reg.nr.: 01-2119485395-27		
CAS: 67-64-1	Acetone	≥10-<15%
EINECS: 200-662-2	🔷 Flam. Liq. 2, H225; 🔷 Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119471330-49		
CAS: 115-10-6	dimethyl ether	2.5-10%
EINECS: 204-065-8	📀 Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 7440-66-6	zinc powder -zinc dust (stabilized)	2.5-10%
EINECS: 231-175-3	🔖 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 1330-20-7	xylene	≥2.5-<10%
EINECS: 215-535-7	🚸 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	

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CAS: 107-98-2	1-methoxy-2-propanol	2.5-109
EINECS: 203-539-1	� Flam. Liq. 3, H226; � STOT SE 3, H336	
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45	aluminium powder (stabilised) Flam. Sol. I, H228; Water-react. 2, H261	2.5-109
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Liq.), H280	2.5-109
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (< 0,1 % 1,3-butadiene) Plam. Gas 1A, H220; Press. Gas (Liq.), H280	2.5-109
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-≤
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide • Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-≤
CAS: 108-88-3 EINECS: 203-625-9	toluene	<i>≤</i> 1%
CAS: 64742-48-9 EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics ♦ Asp. Tox. 1, H304	≤ 2.5%

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.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · *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 symptoms persist consult doctor.

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

- · 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.

GB

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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

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:

Wear self-contained respiratory protective device.

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.

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

· 6.2 Environmental precautions:

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.

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)
- \cdot 7.3 Specific end use(s) No further relevant information available.

GR

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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:		
1ngreatents wan ama v 67-64-1 Acetone	atues that require monitoring at the workplace:	
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm	
WEL (Great Britain)	Long-term value: 1210 mg/m ³ , 500 ppm	
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm	
115-10-6 dimethyl ether		
WEL (Great Britain)	Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm	
IOELV (EU)	Long-term value: 1920 mg/m³, 1000 ppm	
1330-20-7 xylene		
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
IOELV (EU)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin	
107-98-2 1-methoxy-2- ₁	propanol	
WEL (Great Britain)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk	
IOELV (EU)	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Skin	
106-97-8 Butane (< 0,1	1 % 1,3-butadiene)	
WEL (Great Britain)	Short-term value: 1810 mg/m^3 , 750 ppm Long-term value: 1450 mg/m^3 , 600 ppm Carc (if more than 0.1% of buta- 1.3 -diene)	
100-41-4 ethylbenzene		
WEL (Great Britain)	Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm Sk	
IOELV (EU)	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin	
•	ons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).	
RCP-TWA (Great Brita	in) Short-term value: 300 mg/m³, 52 ppm Long-term value: 150 mg/m³ EXXON Mobil	
TWA (Great Britain)	Short-term value: 100 ppm ACGIH	
108-88-3 toluene	·	
WEL (Great Britain)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk	
IOELV (EU)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Skin	

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DNELs		
67-64-1 A	cetone	
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/m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	1,210 mg/m3 (.)
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/m3 (.) Akute - systemische Wirkungen und Aku lokale Wirkungen
		14.8 mg/m3 (hum) Langfristig - systemische Wirkungen
	DNEL Arbeiter / Workers/ Travailleur	77 mg/m3 (.) Langfristig - systemische Wirkungen
	DNEL Arbeiter / Workers/ Travailleur (acut)	289 mg/m3 (.) Akut systemische Wirkungen und Akut - lok Wirkungen
64742-82-	1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes	s, cyclics, aromatics (2-25%).
Oral	DNEL Endverbraucher/ Consumers / Consommateur	26 mg/kg BW/day (.) chronische Exposition, Systemische Wirkung chronic Exposition, systemic effects/ Chroniq Exposition, Systémique Effets
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	26 mg/kg BW /day (.) chronische Exposition, Systemische Wirkung chronic Exposition, systemic effects/ Chronic Exposition, Systémique Effets
	DNEL Arbeiter / Workers/ Travailleur	44 mg/kg BW /day (.) chronische Exposition, Systemische Wirkung chronic Exposition, systemic effects/ Chroniq Exposition, Systémique Effets
Inhalative	DNEL Endverbraucher/ Consumers / Consommateur	71 mg/m3 (.) chronische Exposition, Systemische Wirkung chronic Exposition, systemic effects/ Chroniq Exposition, Systémique Effets
	DNEL Arbeiter / Workers/ Travailleur	330 mg/m3 (.) chronische Exposition, Systemische Wirkung chronic Exposition, systemic effects/ Chroniq Exposition, Systémique Effets
	ts with biological limit values:	
Ingredient		
Ingredient 1330-20-7	xylene	

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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.

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.

· Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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 trough 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:

Form: Aerosol
Colour: Grey
Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/freezing point: Undetermined.

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	(Contd. of page
Initial boiling point and boiling range	e: -42 °C
	value concers to propellant
· Flash point:	-97 °C
	concerns to propellant
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	270 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of bursting at temperatures > 50°C. Damage of the contain may lead to the formation of explosive mixtures of gas/vapors wi air.
· Explosion limits:	
Lower:	1.8 Vol %
Upper:	18.6 Vol %
· Vapour pressure:	Not determined.
· Pressure (20°C) at 20 °C	3.5-4.5 bar
Density at 20 °C:	$0.767 g/cm^3$
· 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:	35.1 %
VOC (EC)	85.06% = 0.2611 kg/400ml
Solids content:	16.9 %
· 9.2 Other information	
Additional information	Vapors are heavier than air.
····· • • · · · · · · · · · · · · · · ·	1

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

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SECTION 11: Toxicological information

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

		tt for classification:
	, ,	1 % 1,3-butadiene)
Inhalative		>20 mg/l (rat)
67-64-1 A		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,400 mg/kg (rat)
Inhalative		76 mg/l (rat)
	limethyl ether	
Inhalative	LC50/4 h	308 mg/l (rat)
1330-20-7	xylene	
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
107-98-2 1-methoxy-2-propanol		
Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	25.8 mg/l (rat)
74-98-6 pr	opane	
Inhalative	LC50/4 h	>20 mg/l (rat)
	LC50 /15 min	1,443 mg/l (rat)
106-97-8 I	Butane (< 0,1	% 1,3-butadiene)
Inhalative	LC50/4 h	658 mg/l (rat)
100-41-4 е	thylbenzene	
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
64742-48-	9 Hydrocarbo	ns, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rab)
Inhalative	LC50/4 h	>5 mg/l (rat)
1314-13-2	zinc oxide	•
Oral	LD50	>5,000 mg/kg (rat)
108-88-3 t	oluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative		5,320 mg/l (mouse)

- · 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 (carcinogenity, 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.

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- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause drowsiness or dizziness.

· 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.

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.
- · Ecotoxical effects:
- · Remark: 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.

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

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Trade name: Metaflux 70-42 ALU-ZINC

(Contd. of page 10) · 14.2 UN proper shipping name $\cdot ADR$ 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS · IMDG AEROSOLS (zinc powder -zinc dust (stabilized), Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%).), MARINE POLLUTANT AEROSOLS, flammable \cdot IATA · 14.3 Transport hazard class(es) $\cdot ADR$ · Class 2 5F Gases. ·Label 2.1 ·IMDG · Class 2.1 ·Label 2.1 \cdot IATA 2.1 · Class ·Label 2.1 · 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: · 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. SG69 For AEROSOLS with a maximum capacity of 1 litre: · Segregation Code 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.

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Trade name: Metaflux 70-42 ALU-ZINC

Transport/Additional information:	(Contd. of page
ADR	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
Remarks:	Transportation as "LIMITED QUANTITIES" accordi
	3.4 ADR is possible.
	Sole marking: Sign for "Limited Quantities" (rhomb
	with two black edges)
	Entry in the transportation document: Transportati according chapter 3.4 ADR
	Tunnel category "E" in case of a load of 8000 kg (rgroweight) or more.
	Hazardous goods under the transport regulations list
	above may be subject to special regulations. For deta
	please consult the relevant transport regulations
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTAL
-	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

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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

- · 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.

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Printing date 20.04.2021 Revision: 20.04.2021

Trade name: Metaflux 70-42 ALU-ZINC

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Class	Share in %
NK	35.1

· 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.
- H361d Suspected of damaging the unborn child via inhalation.
- 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

Press. Gas (Liq.): Gases under pressure - Liquefied 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

Repr. 2: Reproductive toxicity – 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.