Article Print d Versio	ate: 27.12.2	ALU-ZINK Spray 2022 Revision date: 10. Issue date: 10.12.		EN Page 1 / 12
SEC	FION 1: Identifica	tion of the substance/mixt	ure and of the compa	ny/undertaking
1.1.	product identifiers Article No. (manufa Trade name/design	cturer/supplier)	747 ALU-ZINK Spray UFI: PE7V-457V-U99	G-W2V0
1.2.	Relevant identified	d uses of the substance or mi	ixture and uses advised	l against
1.3.	Details of the supp	olier of the safety data sheet		
		rer/importer/downstream user/ nungen CH-5000 Aarau www.fa		
	Department responsion laboratory Manager E-mail (competent p		info@knuchel.ch	
1.4.	Emergency telepho Emergency telepho		145 (+41 (0)44 251 51	1 51)
SEC	FION 2: Hazards i	dentification		
2.1.	Classification of th	ne substance or mixture		
	Classification acc	ording to Regulation (EC) No	1272/2008 [CLP]	
	The mixture is class	sified as hazardous according t	o regulation (EC) No 127	2/2008 [CLP].
	Aerosol 1 / H222 Aerosol 1 / H229 Eye Irrit. 2 / H319 STOT SE 3 / H336 Aquatic Chronic 2 /	Aerosol Aerosol Serious eye dama STOT-single expos H411 Hazardous to the a		Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.
2.2.	Label elements			
	Labelling accordin	ng to Regulation (EC) No. 127	2/2008 [CLP]	
	Hazard pictograms	S S		
		Dang	er	
	Hazard statements H222 H229 H319 H336 H411	Extremely flammable aerose Pressurised container: May Causes serious eye irritation May cause drowsiness or di Toxic to aquatic life with lon	burst if heated. n. izziness.	
	Precautionary stat P101 P102 P103 P210 P211 P251 P261 P264 P271 P273 P280 P304 + P340 P305 + P351 + P33 P312 P337 + P313	If medical advice is needed. Keep out of reach of childre Read carefully and follow al Keep away from heat, hot s Do not spray on an open fla Do not pierce or burn, even Avoid breathing vapours. Wash hands thoroughly afte Use only outdoors or in a w Avoid release to the enviror Wear protective gloves and IF INHALED: Remove perso	n. I instructions. urfaces, sparks, open fla me or other ignition sour after use. er handling. ell-ventilated area. ment. eye/face protection. on to fresh air and keep o ly with water for several r g. doctor/physician if you fe	mes and other ignition sources. No smoking. ce. comfortable for breathing. ninutes. Remove contact lenses, if present and eel unwell.

	e No.: date: on:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 2 / 12	
	P391 P403 + P23 P405 P410 + P41 P501	33 Sto Kee 12 Pro	ect spillage. e in a well-ventilated place. Keep contain p locked up. tect from sunlight. Do not expose to tempo pose of contents/container to industrial inc	eratures exceeding 50 °C/122 °F.	
	Hazard co	<b>mponents for</b> Eth	abelling /l acetate		
	Suppleme EUH066	n <b>tal hazard inf</b> Rep	ormation eated exposure may cause skin dryness	or cracking.	
2.3.	Other haza	ards			
	No informa	tion available.			
SEC	TION 3: Co	mposition/ir	formation on ingredients		
	TION 3: Co Mixtures	omposition/ir	formation on ingredients		
	Mixtures	•		wing hazardous substances:	
	Mixtures Descriptio	n solv	rent-based alkyd resin, containing the follo	•	
	Mixtures Descriptio Classificat EC No.	n solv ion according RE	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No.	-	
	Mixtures Descriptio Classificat EC No. CAS No.	n solv ion according RE Des	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation	-	ight-%
	Mixtures Descriptio Classificat EC No. CAS No. Index No.	n solv ion according RE Des cla	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark	-	ight-%
	Mixtures Descriptio Classificat EC No. CAS No.	n solv ion according RE Des cla 01-	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46	we	<b>ight-%</b>
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4	n solv ion according RE Des cla 01- Eth	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark	- we 1!	
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1	n solv ion according RE Des cla 01- Eth 0-5 Fla	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46 yl acetate	- we 1!	
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4	n solv ion according RE Des cla 01- Eth 0-5 Fla 01- n-b	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate	0T SE 3 H336 / EUH066 11	
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4 607-025-00	n solv ion according RE Des cla 01- Eth 01- 5 Fla 01- n-b 0-5 Fla	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate n. Liq. 3 H226 / STOT SE 3 H336 / EU	0T SE 3 H336 / EUH066 11	5 - 25
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4 607-025-00 200-662-2	n solv ion according RE Des cla 01- Eth 01- 5 Fla 01- n-b 0-1 Fla 01- 01-	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. Signation Sification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate n. Liq. 3 H226 / STOT SE 3 H336 / EU 2119471330-49	0T SE 3 H336 / EUH066 H066	5 - 25 5 - 25
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4 607-025-00 200-662-2 67-64-1	n solv ion according RE Des cla 01- Eth 01- 5 Fla 01- n-b 0-1 Fla 01- Acce	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate n. Liq. 3 H226 / STOT SE 3 H336 / EU 2119471330-49 tone	UT SE 3 H336 / EUH066 H066	5 - 25
<b>SEC</b> 3.2.	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4 607-025-00 200-662-2 67-64-1 606-001-00	n solv ion according RE Des cla 01- Eth 01- 5 Fla 01- n-b 0-1 Fla 01- Acce	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. Signation Sification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate n. Liq. 3 H226 / STOT SE 3 H336 / EU 2119471330-49	UT SE 3 H336 / EUH066 H066	5 - 25 5 - 25
	Mixtures Descriptio Classificat EC No. CAS No. Index No. 205-500-4 141-78-6 607-022-00 204-658-1 123-86-4 607-025-00 200-662-2 67-64-1	n solv ion according RE Des cla 01- Eth 01- n-b 0-1 Fla 01- Acc 0-8 Fla	rent-based alkyd resin, containing the follo to Regulation (EC) No 1272/2008 [CLP] ACH No. signation ssification // Remark 2119475103-46 yl acetate n. Liq. 2 H225 / Eye Irrit. 2 H319 / STC 2119485493-29 utyl acetate n. Liq. 3 H226 / STOT SE 3 H336 / EU 2119471330-49 tone	0T SE 3 H336 / EUH066 H066 DT SE 3 H336 / EUH066	5 - 25 5 - 25

Full text of classification: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### **Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### 4.2. **Most important symptoms and effects, both acute and delayed** In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed First Aid, decontamination, treatment of symptoms.

Article No.:	747	ALU-ZINK Spray
Print date: Version:	27.12.2022 3.0	Revision date: 10.12.2022 Issue date: 10.12.2022
version.	3.0	1550e uale. 10.12.2022

EN Page 3 / 12

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### **Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

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

Observe technical data sheet. Observe instructions for use.

Article No.: Print date: Version:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 4 / 12

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Occupational exposure limit values:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 734 mg/m3; 200 ppm WEL, STEL: 1468 mg/m3; 400 ppm

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1 WEL, TWA: 1210 mg/m3; 500 ppm

WEL, STEL: 3620 mg/m3; 1500 ppm

#### Additional information

TWA : Long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### DNEL:

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL long-term dermal (systemic), Workers: 63 mg/kg DNEL acute inhalative (local), Workers: 1468 mg/m<sup>3</sup>

DNEL acute inhalative (local), workers: 1460 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 734 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 734 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 4,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 734 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 734 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Consumer: 367 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 367 mg/m<sup>3</sup>

### Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1 DNEL long-term dermal (systemic), Workers: 186 mg/kg bw/day DNEL acute inhalative (local), Workers: 2420 mg/m<sup>3</sup> DNEL long-term inhalative (systemic), Workers: 1210 mg/m<sup>3</sup> DNEL long term acut (specification), Consumers: 62 mg/kg bw/day

DNEL long-term oral (repeated), Consumer: 62 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 62 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 200 mg/m<sup>3</sup>

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 DNEL short-term oral (acute), Workers:

DNEL long-term inhalative (systemic), Workers: 480 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m<sup>3</sup> **PNEC:** 

Ethyl acetate Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6 PNEC aquatic, freshwater: 0,24 mg/L

PNEC aquatic, marine water: 0,024 mg/L

PNEC aquatic, intermittent release: 1,65 mg/L

PNEC sediment, freshwater: 1,15 mg/kg

PNEC sediment, marine water: 0,115 mg/kg

PNEC, soil: 0,148 mg/kg

PNEC sewage treatment plant (STP): 650 mg/L

PNEC Secondary Poisoning: 200 mg/kg food

#### Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1 PNEC aquatic, freshwater: 10,6 mg/L

Article No.: Print date: Version:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 5 / 12			
PN PN PN PN	EC aquatic, marine water EC aquatic, intermittent r EC sediment, freshwater EC sediment, marine wat EC, soil: 29,5 mg/kg EC sewage treatment pla	elease: 21 mg/L 30,4 mg/kg er: 3,04 mg/kg				
Inde PN PN PN PN PN PN	EC aquatic, freshwater: 0 EC aquatic, marine water EC aquatic, intermittent r EC sediment, freshwater:	: 0,018 mg/L elease: 0,36 mg/L 0,981 mg/kg Sediment dry weight er: 0,0981 mg/kg Sediment dry wei ediment dry weight	ght			
Prov			n suction. If this should not be sufficient to keep aerosol a suitable respiratory protection must be used.			
Pers	Personal protection equipment					
lf co			re limit values, approved and suitable respiratory protect -symbol including four digit test number.			
For p Thicl Obse man glove	creases of the glove materia erve the instructions and ufacturer. Penetration tin e articles EN ISO 374	e of glove material depending or				
Eye/	face protection	glasses in case of splashes.				
	<b>Body protection</b> Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.					
	Protective measures After contact clean skin thoroughly with water and soap or use appropriate cleanser.					
	Environmental exposure controls					
Do r	ot allow to enter into surf	ace water or drains. See section 7.	No additional measures necessary.			
SECTION	9: Physical and chen	nical properties				
	mation on basic physic sical state:	al and chemical properties Liquid				

Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	-42 °C
	Source: Hydrocarbons, C3-4
Flammability:	Extremely flammable aerosol.
Lower and upper explosion limit:	
Lower explosion limit:	1.9 Vol-%
Lower explosion limit: Upper explosion limit:	1.9 Vol-% 13 Vol-%
	13 Vol-%
Upper explosion limit:	13 Vol-% Source: Acetone
Upper explosion limit:	13 Vol-% Source: Acetone -100 °C
Upper explosion limit: Flash point:	13 Vol-% Source: Acetone -100 °C Method: DIN 53213

Article Print d Versio	ate:	747 27.12.2022 3.0	ALU-ZINK Spra Revision date: Issue date: 10.	10.12.2022	EN Page 6 / 12
	Decomp	osition temperature		not applicable	
	pH at 20	-		not applicable	
	Cinemat	ic viscosity (40°C):		< 80 mm²/s	
	Viscosity	y at 20 °C:		<b>20 s 4 mm</b> Method: DIN 53211	
	Solubilit Water s	y(ies): olubility at 20 °C:		partially soluble	
	Partition	coefficient: n-octar	ol/water:	see section 12	
	Vapour p	pressure at 20 °C:		8300 mbar Source: Hydrocarbons	s, C3-4
		and/or relative dens at 20 °C:	ty:	0.74 g/cm³	
	Relative	vapour density:		not applicable	
	particle	characteristics:		not applicable	
9.2.	Other inf	formation			
	Solid co	ntent:		13 weight-%	
	solvent o Organio Water:	content: c solvents:		87 weight-% 0 weight-%	
SEC	TION 10:	Stability and reac	tivity		
10.1.	Reactivit No inform	t <b>y</b> nation available.			
10.2.			mmended regula	tions for storage and han	ndling. Further information on correct storage: refer to
10.3.		ity of hazardous rea ay from strong acids,		strong oxidizing agents	to avoid exothermic reactions.
10.4.		ns to avoid us decomposition byp	roducts may form	with exposure to high te	mperatures.
10.5.	Incompa not applie	<b>tible materials</b> cable			
10.6.	Hazardou	us decomposition p us decomposition byp itrogen oxides.		n with exposure to high to	emperatures, e.g.: carbon dioxide, carbon monoxide,
SEC	TION 11:	Toxicological info	ormation		
11.1.			es as defined in	Regulation (EC) No 127	2/2008
	Acute to	xicity			
	dermal, oral, LD Method inhalativ inhalativ	etate 950, Rat: 5620 mg/kg LD50, Rabbit: > 2000 950, Rabbit: 4934 : OECD 401 ve (vapours), LC0, Rave ve (vapours), LCLo, F ve (vapours), LD50, F	t: 29,3 (4 h) at: > 6000 ppm		
		950, Rat: 5800 mg/kg : OECD 401			
	May ca			miting, dizziness, headac	he and unconsciousness.

dermal, LD50, Rabbit: 7400 mg/kg inhalative (vapours), LC50, Rat: 76 mg/L (4 h)

-			Page 7 / 12
concentr		d throat, nausea, dizziness, headache	, loss of responsiveness and unconsciousness at high
Method: dermal, I Method: inhalative Method:	i0, Rat: 10760 mg. OECD 423 D50, Rabbit: 141 OECD 402 e (dust and mist), I OECD 403	LC50, Rat: 23,4 mg/L (4 h)	
Skin corre	osion/irritation; S	erious eye damage/eye irritation	
Causes se	erious eye irritatior		
dermatiti eyes	) rritation (rabbit). D		d rough. Prolonged or repeated skin contact can lead to
No skin i eyes	bbit (4 h) OECD 404		
No eye ir	ritation		
Respirato	ry or skin sensiti	sation	
	inea pig: ; Evaluat OECD 406	on not sensitising.	
Method:		on not sensitising. test (MEST)	
		ity, mutagenicity and toxicity for rej	production)
Ethyl acet: Germ ce Carcinog Reprodu Genotoxi (Chromo Test Gui Genotoxi Method:	ate Il mutagenicity; Ev Jenicity; Evaluatior ctive toxicity; Evalu- icity in vitro; Evalu- some aberration to deline 473).; (Bacl icity in vivo; Evalua OECD 474	aluation In vitro tests showed no muta Didn't show any carcinogenic effects Jation No reproductive toxicity ation negative est in vitro; CHO (Chinese hamster ov a mutation test on bacteria; Salmonella	genic effects. in animal tests. aries) cells; with and without metabolic activation) (OEC a typhimurium) (OECD test guideline 471).
n-butyl ace Germ ce		aluation Ames test negative.	
		OT-repeated exposure	
May cause	e drowsiness or di	zziness.	
Ethyl acet Specific Inhalatio Specific No data Repeate Method N	ate target organ toxici n; central nervous target organ toxici available d dose toxicity: 90 NOAEL	y (single exposure) system; May cause drowsiness or diz y (repeated exposure)	ziness.

747

Article No.: Print date: Version:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 8 / 12	
oral Repea Method inhalat Repea Method	d LOAEL ted dose toxicity, Ra d NOEC ive (vapours); 5 days ted dose toxicity, Ra d LOEC: ive (vapours); 5 days	s/week t: 350 ppm (94 d)		
central Specifi human	c target organ toxicit nervous system; Ma c target organ toxicit ; Prolonged or repea	y cause drowsiness or dizziness. y (repeated exposure)	of natural fat from the skin resulting in dermatitis (sk isness.	kin
Aspirati	ion hazard			

Ethyl acetate Aspiration hazard no classification

n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### 11.2. Information on other hazards

Endocrine disrupting properties

No information available.

#### **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

Ethyl acetate Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h) Flow test; US-EPA Daphnia toxicity, EC50, Daphnia magna: 610 mg/L (48 h) Daphnia toxicity, EC50, Daphnia cucullata (Helmet water flea): 165 mg/L (48 h) Algae toxicity, EC50, Desmodesmus subspicatus: 5600 mg/L (48 h) Method: DIN 38412 Static test; end; Rate of growth Algae toxicity, NOEC, Desmodesmus subspicatus: > 100 mg/L (72 h) Method: OECD 201 Static test; end; Rate of growth Bacteria toxicity, EC10, Photobacterium phosphoreum: 1650 mg/L (15 min.) Static test; end; Rate of growth Bacteria toxicity, EC50, Photobacterium phosphoreum: 5870 mg/L (15 min.) Static test; end; Rate of growth Acetone Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 5540 mg/L (96 h) Fish toxicity, LC50, Alburnus alburnus (alburnum): 11000 mg/L (96 h)

Daphnia toxicity, LC50, Daphnia pulex (water flea): 8800 mg/L (48 h)

Algae toxicity, NOEC, Prorocentrum minimum: 430 mg/L (96 h)

Article Print d Versio	ate:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.20 Issue date: 10.12.2022	22	EN Page 9 / 12
	Method: Static te Fish toxi Daphnia Fish toxi Fish toxi Fish toxi	OECD 209 st; end; respiratory in city, LC50, Leuciscus magna, EC50, Daph city, EC50, Lepomis city, EC50, Selenast	ated sludge: 1000 mg/L hibition s idus (golden orfe): 7500 inia magna: > 100 mg/L macrochirus (Bluegill): 83 rum capricornutum: 7500 es promelas (fathead min	mg/L (96 h) 00 mg/L (96 h) ng/L (96 h)	96 h)
	Method: Daphnia Algae to Algae to (Growth Algae to	city, LC50, Pimephal OECD 203 toxicity, EC50, Daph xicity, ErC50 xicity, EC50, Desmod inhibition) xicity, NOEC, Desmod	es promelas (fathead min nia magna (Big water flea desmus subspicatus: 647, desmus subspicatus: 200 nymena: 356 mg/L (40 h)	): 44 mg/L (48 h) 7 mg/L (72 h) mg/L	h)
	Long-terr	n Ecotoxicity			
		quatic life with long la	asting effects.		
		city, NOEC, Pimepha OECD 211	iles promelas (fathead mi	nnow): > 9,65 mg/L	(32 d)
	end; rep Daphnia	roduction toxicity, LOEC:, Dap	hnia pulex (water flea): 22 hnia magna: 2212 mg/L hnia magna 1106 - 2212	(28 d)	ng/L (28 d)
12.2.	•	ice and degradabilit		0 ( )	
	Biodegra Method:	nce and degradability			r from the water surface. cording to OECD criteria).
	•	adation: 91 percent OECD 301B	(28 d); Evaluation Readily	biodegradable (acc	cording to OECD criteria).
	Biodegra	nce and degradability	<ul> <li>r: Evaluation No data av</li> <li>(28 d); Evaluation Readily</li> </ul>		cording to OECD criteria).
12.3.	Bioaccun	nulative potential			
		coefficient: n-octano		3; Evaluation Bioa	ccumulation is not to be expected.
	Acetone Distribut	ion coefficient n-octa	nol/water (log KOW): -0,2	4	
	n-butyl ac Distribut	etate	nol/water (log KOW):		
	Bioconce	entration factor (BC	=)		
	Ethyl acet Bioconce	ate entration factor (BCF	): 30		
	Acetone	entration factor (DCC			

Bioconcentration factor (BCF): 3

Article No.:	747	ALU-ZINK Spray
Print date:	27.12.2022	Revision date: 10.12.2022
Version:	3.0	Issue date: 10.12.2022

FN Page 10 / 12

#### Bioaccumulation is not to be expected.

#### 12.4. Mobility in soil

#### Ethyl acetate

Water: Evaluation Swims on water and does not dissolve.

Air: Evaluation Slightly volatile, quickly distributed in the air.

- Acetone
- soil: Mobile in the ground
- Water:

The product is water soluble.

Air:

Product is easily volatile.

n-butyl acetate

No data available

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties No information available.

#### 12.7. Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Appropriate disposal / Product

### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

#### List of proposed waste codes/waste designations in accordance with EWC

160504\* Gases in pressure containers (including halons) containing hazardous substances \*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

### Appropriate disposal / Package

### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### **SECTION 14: Transport information**

#### LIN number or ID number 14 1

17.1.		
		UN 1950
14.2.	<b>UN proper shipping name</b> Land transport (ADR/RID): Sea transport (IMDG): Air transport (ICAO-TI / IATA-DGR):	Aerosols, flammable AEROSOLS Aerosols, flammable
14.3.	Transport hazard class(es)	2.1
14 4	Packing group	2.1
14.4.		not applicable
14.5.	Environmental hazards	
	Land transport (ADR/RID)	UMWELTGEFÄHRDEND
	Marine pollutant	р
14.6.	Special precautions for user	

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

Article Print c Versic	late:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 11 / 12		
	Further information					
	Land transport (ADR/RID)					
	Tunnel res	striction code	D			
	Sea trans	port (IMDG)				
	EmS-No.		F-D, S-U			
	in packag	es <= 5 litres	not restricted 2.10.	2.7		
14.7.	Maritime	transport in bulk	according to IMO instruments			
No transport as bulk according IBC - Code.						
SEC	TION 15:	Regulatory info	rmation			
15.1.	Safety, he	ealth and environ	mental regulations/legislation specific	; for the substance or mixture		
-	EU legisla					
	Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]					
VOC-value (in g/L): 643				•		
National regulations						
	Restrictions of occupation					
Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter r applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline			rictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if			
			iuvenile work protection quideline' (94/33/EC) or stricter			
national regulations, if applicable.						
15.2.	Chemical Safety Assessment					
	For the following substances of this mixture a chemical safety assessment has been carried out:					
	EC No. CAS No.	Desiç	Ination	REACH No.		
	205-500-4 141-78-6	£thyl	acetate	01-2119475103-46		
	204-658-1 123-86-4	n-but	/I acetate	01-2119485493-29		

01-2119471330-49

## **SECTION 16: Other information**

200-662-2

67-64-1

#### Full text of classification in section 3

Acetone

I dif toxt of oldoomoution in		
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting
		effects.

#### **Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]				
Aerosol 1	Aerosol	On basis of test data.		
Aerosol 1	Aerosol	On basis of test data.		
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.		
STOT SE 3	STOT-single exposure	Calculation method.		
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.		
Abbreviations and acronyms				

Appreviations and a	cronyms
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard

Article No.: Print date: Version:	747 27.12.2022 3.0	ALU-ZINK Spray Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 12 / 12		
DNEL	C	Derived No-Effect Level			
EAKV	E	European Waste Catalogue Directive	:		
EC	E	ffective Concentration			
EC	E	European Community			
EN	E	European Standard			
IATA-DGF	ર և	nternational Air Transport Association	n – Dangerous Goods Regulations		
			national Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk		
ICAO-TI	li	nternational Civil Aviation Organizati	tion Technical Instructions for the Safe Transport of Dang	erous	
		Goods by Air			
IMDG Coo		nternational Maritime Code for Dange			
ISO		nternational Organization for Standard	rdization		
LC		ethal Concentration			
LD	_	ethal Dose			
MARPOL			Convention for the Prevention of Pollution from Ships		
OECD		Organisation for Economic Cooperation	on and Development		
PBT		ersistent, bioaccumulative, toxic			
PNEC		Predicted No Effect Concentration			
REACH		Registration, Evaluation, Authorisation			
RID		•	onal Carriage of Dangerous Goods by Rail		
UN	-	Inited Nations			
VOC		olatile Organic Compounds			
vPvB	v	ery persistent and very bioaccumulat	tive		
Further in	nformation				

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.