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

**Precautionary statements** 

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1.1	Product identifier	
		Zinc ammonium chloride Powder
	Registration number	01-2119557900-37-0001
	IUPAC	Ammonium zinc chloride
	EINECS/ELINCS	258-054-8
	CAS	52628-25-8
1.2	Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1	Relevant uses	
		Raw material for industrial applications Usage only in accordance with the identified usages as stipulated in the CSR/CSA.
1.2.2	Uses advised against	
		None known.
1.3	Details of the supplier of the safe	ty data sheet
	Company	S.A. LIPMES Creu Guixera s/n 08243 Manresa (Barcelona) / SPAIN Phone +34 938770447 Fax +34 938741160 E-mail lipmes@lipmes.com
	Address enquiries to	
	Technical information	lipmes@lipmes.com
	Safety Data Sheet	sdb@chemiebuero.de
1.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (English)
SEC	TION 2: Hazards identification	
2.1	Classification of the substance or	r mixture [REGULATION (GB) CLP]
		Acute Tox. 4: H302 Harmful if swallowed. Skin Corr. 1B: H314 Causes severe skin burns and eye damage. STOT SE 3: H335 May cause respiratory irritation. 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	
		The product is required to be labelled in accordance with regulation CLP.
	Hazard pictograms	
	Signal word	DANGER
	Contains:	Ammonium zinc chloride EINECS: 258-054-8
	Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

P273 Avoid release to the environment.

P260 Do not breathe dust.

P405 Store locked up.

H410 Very toxic to aquatic life with long lasting effects.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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#### 2.3 Other hazards

Environmental hazards	The product/the substance has the Water Hazard Class 3.
Other hazards	none

#### **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

#### The product is a substance.

Range [%]	Substance
> 94	Ammonium zinc chloride
	CAS: 52628-25-8, EINECS/ELINCS: 258-054-8, Reg-No.: 01-2119557900-37-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - STOT SE 3: H335 - Aquatic Chronic 1: H410
1 - 5	Zinc chloride
	CAS: 7646-85-7, EINECS/ELINCS: 231-592-0, EU-INDEX: 030-003-00-2, Reg-No.: 01-2119472431-44-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
	SCL [%]: >= 5: STOT SE 3: H335
1 - 5	Ammonium chloride
-	CAS: 12125-02-9, EINECS/ELINCS: 235-186-4, EU-INDEX: 017-014-00-8, Reg-No.: 01-2119487950-27-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319
1 - 5	Diammonium tetrachlorozincate(2-)
	CAS: 14639-97-5, EINECS/ELINCS: 238-687-6
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Chronic 1: H410
1 - 5	Triammonium pentachlorozincate(3-)
	CAS: 14639-98-6, EINECS/ELINCS: 238-688-1
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Chronic 1: H410
1 - 5	Ammonium chloride   CAS: 12125-02-9, EINECS/ELINCS: 235-186-4, EU-INDEX: 017-014-00-8, Reg-No.: 01-2119487950-27-XXX   GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319   Diammonium tetrachlorozincate(2-)   CAS: 14639-97-5, EINECS/ELINCS: 238-687-6   GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Chronic 1: H410   Triammonium pentachlorozincate(3-)   CAS: 14639-98-6, EINECS/ELINCS: 238-688-1

Comment on component parts

This product is a mixture of salts. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

#### 3.2 Mixtures

not applicable

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Consult a doctor immediately. Ensure supply of fresh air.
Skin contact	Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds. In case of contact with skin wash off immediately with plenty of water.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Shield unaffected eye. If eye irritation persists: Get medical advice/attention.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

No information available.

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Indication of any immediate medical attention and special treatment needed Treat symptomatically. Forward this sheet to your doctor.

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SEC	TION 5: Fire-fighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
	Extinguishing media that must not be used	Full water jet.
5.2	Special hazards arising from the	substance or mixture
		Hydrogen chloride (HCI). Nitrogen oxides (NOx).
5.3	Advice for firefighters	
		Use self-contained breathing apparatus. Wear full protective suit.
		Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
SEC	TION 6: Accidental release measu	ıres
6.1	Personal precautions, protective	e equipment and emergency procedures
~-•		Avoid dust formation.
		Use breathing apparatus if exposed to dust.
		Use personal protective equipment.
6.2	Environmental precautions	
		Do not discharge into the drains/surface waters/groundwater.
6.3	Methods and material for contain	nment and cleaning up
		Take up mechanically.
		Avoid raising dust.
		Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		Avoid the formation and deposition of dust.
		Provide vacuuming if dust raised.
		Use breathing apparatus when transferring large quantities without vacuuming facilities.
		Do not eat, drink or smoke when using this product.
		Clean skin thoroughly after work, apply skin cream.
		Use barrier skin cream.
		Contaminated work clothing should not be allowed out of the workplace.
		Take off contaminated clothing and wash before reuse.



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

Provide acid-resistant floor.

Do not store with alkalies.

Store in a dry place. Keep container in a well-ventilated place. Keep container tightly closed.

#### 7.3 Specific end use(s)

Usage only in accordance with the identified usages as stipulated in the CSR/CSA. See product use, SECTION 1.2



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

#### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance	
Zinc chloride	
CAS: 7646-85-7, EINECS/ELINCS: 231-592-0, EU-INDEX: 030-003-00-2, Reg-No.: 01-2	2119472431-44-XXXX
Long-term exposure: 1 mg/m <sup>3</sup> , fume	
Short-term exposure (15-minute): 2 mg/m <sup>3</sup>	
Ammonium chloride	
CAS: 12125-02-9, EINECS/ELINCS: 235-186-4, EU-INDEX: 017-014-00-8, Reg-No.: 01	-2119487950-27-XXXX
Long-term exposure: 10 mg/m <sup>3</sup>	
Short-term exposure (15-minute): 20 mg/m <sup>3</sup>	

#### DNEL

Amm	onium zinc chloride, CAS: 52628-25-8
Indus	trial, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d (NOAEL) (AF=1)
Indus	trial, inhalative (dust), Long-term - systemic effects, 1 mg/m3 (NOAEC) (AF=1)
gener	ral population, oral, Long-term - systemic effects, 0.83 mg/kg bw/d (NOAEL) (AF=1)
gener	ral population, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d (NOAEL) (AF=1)
gener	ral population, inhalative (dust), Long-term - systemic effects, 1.3 mg/m <sup>3</sup> (NOAEC) (AF=1)
Amm	onium chloride, CAS: 12125-02-9
Indus	trial, dermal, Long-term - systemic effects, 128.9 mg/kg
Indus	trial, inhalative, Long-term - systemic effects, 43.97 mg/m <sup>3</sup>
gener	ral population, oral, Long-term - systemic effects, 55.2 mg/kg
gener	ral population, dermal, Long-term - systemic effects, 55.2 mg/kg
gener	ral population, inhalative, Long-term - systemic effects, 9.4 mg/m <sup>3</sup>
Zinc o	chloride, CAS: 7646-85-7
Indus	trial, inhalative, Long-term - systemic effects, 1 mg/m³ (AF=1)
Indus	strial, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d (AF=1)
gener	ral population, inhalative, Long-term - systemic effects, 1.25 mg/m3 (AF=1)
gener	ral population, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d (AF=1)
aener	ral population, oral, Long-term - systemic effects, 0.83 mg/kg bw/d (AF=1)

#### PNEC

Substance	
Ammonium zinc chloride, CAS: 52628-25-8	
sediment (freshwater), 117.8 mg/kg dw (AF=1)	
freshwater, 20.6 µg/l (AF=1)	
sewage treatment plants (STP), 52 µg/l (AF=100)	
sediment (seawater), 56.5 mg/kg dw (AF=1)	
soil, 35.6 mg/kg dw (AF=1)	
seawater, 6.1 µg/l (AF=1)	
Ammonium chloride, CAS: 12125-02-9	
freshwater, 0.25 mg/l	
seawater, 0.025 mg/l	
sediment (freshwater), 0.9 mg/kg	
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sewage treatment plants (STP), 13.1 mg/l
sediment (seawater), 0.09 mg/kg
soil, 50.7 mg/kg
Zinc chloride, CAS: 7646-85-7
freshwater, 20.6 µg/L (AF=1)
sewage treatment plants (STP), 100 µg/l (AF=1)
soil, 35.6 mg/kg dw (AF=1)
sediment (seawater), 56.5 mg/kg dw (AF=1)
sediment (freshwater), 117.8 mg/kg dw (AF=1)
seawater, 6.1 µg/L (AF=1)

#### 8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3). In splash contact: > 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Acid-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale dust.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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9.1	Information on basic physical and	I chemical properties
	Physical state	powder
	Color	white
	Odor	odourless
	Odour threshold	not applicable
	pH-value	ca. 5 (100 g/l)
	pH-value [1%]	No information available.
	Boiling point [°C]	730
	Flash point [°C]	not applicable
	Flammability (solid, gas) [°C]	not applicable
	Lower explosion limit	not applicable
	Upper explosion limit	not applicable
	Oxidising properties	no
	Vapour pressure/gas pressure [kPa]	<0.1 (20°C)
	Density [g/cm³]	2.9
	Relative density	not determined
	Bulk density [kg/m³]	1800
	Solubility in water	630 - 920 g/l (31° - 50° Bé)
	Solubility other solvents	No information available.
	Partition coefficient [n-octanol/water]	No information available.
	Kinematic viscosity	not applicable
	Relative vapour density	not applicable
	Evaporation speed	not applicable
	Melting point [°C]	318
	Auto-ignition temperature	not applicable
	Decomposition temperature [°C]	not determined
	Particle characteristics	No information available.
9.2	Other information	
5.2		No information available.

#### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

#### 10.3 Possibility of hazardous reactions

Reactions with alkalies (lyes).

#### 10.4 Conditions to avoid

Reactions with damp air and moistureness. Strong heating.

#### 10.5 Incompatible materials

Various metals.



No information available.

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#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
LD50, oral, Rat, 1100 - 1260 mg/kg (CSA)

Substance	
Ammonium zinc chloride, CAS: 52628-25-8	
LD50, oral, Rat, 1100 - 1260 mg/kg bw	
Ammonium chloride, CAS: 12125-02-9	
LD50, oral, Rat, 1650 mg/kg (IUCLID)	
Zinc chloride, CAS: 7646-85-7	
LD50, oral, Rat, 1100 mg/kg bw	

#### Acute dermal toxicity

Subs	stance
Zinc	chloride, CAS: 7646-85-7
LD50	0, dermal, Rat, > 2000 mg/kg bw

#### Acute inhalational toxicity

Substance
Zinc chloride, CAS: 7646-85-7
LC50, inhalative, Rat, 1.975 mg/L (10 min)

	Serious eye damage/irritation	Toxicological data of complete product are not available.
	Skin corrosion/irritation	Product is caustic. Based on the available information, the classification criteria are fulfilled.
	Respiratory or skin sensitisation	Non-sensitizing. Based on the available information, the classification criteria are not fulfilled.
	Specific target organ toxicity — single exposure	May cause respiratory irritation. Based on the available information, the classification criteria are fulfilled.
	Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
	Mutagenicity	Ames-test: negative. Based on the available information, the classification criteria are not fulfilled.
	Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
	Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
	Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
	General remarks	
		The toxiclogical data are those of the pure product. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.
11.2	Information on other hazards	
	Endocrine disrupting properties	No information available.
	Other information	No information available.



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

#### 12.1 Toxicity

Product
LC50, (96h), Pimephales promelas, 0.78/0.33 mgZn/l (CSA)
LC50, (96h), Oncorhynchus mykiss, 0.169 mgZn/l (CSA)
EC50, (48h), Ceriodaphnia dubia, 0.147 - 0.413 mgZn/l (CSA)

Substance
Ammonium zinc chloride, CAS: 52628-25-8
LC50, (48h), Daphnia magna, 100 - 800 μg/l
LC50, (96h), Oncorhynchus mykiss, 169 μg/l
Ammonium chloride, CAS: 12125-02-9
LC50, (96h), Salmo clarki, 123.8 - 166.6 mg/l (IUCLID)
EC50, (48h), Daphnia magna, > 100 mg/l (Lit.)
Zinc chloride, CAS: 7646-85-7
LC50, (48h), Daphnia magna, 1220 μg Zn/l
LC50, (96h), fish, 439 μg Zn/l
LC50, (96h), Pimephales promelas, 0.78 mg Zn/l (Lit.)
LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/l
EC50, (48h), Ceriodaphnia dubia, 0.147 - 0.413 mg Zn/l (Lit.)
IC50, (72h), Selenastrum capricornutum, 0.136 mg Zn/l (Lit.)

#### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not applicable

#### 12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.



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#### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

	Product	
		Dispose of as hazardous waste. Coordinate disposal with the disposal contractor/authorities if necessary.
	Waste no. (recommended)	060313*
	Contaminated packaging	
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
	Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances
SEC	TION 14: Transport information	
14.1	UN number or ID number	
	Transport by land according to ADR/RID	2331
	Inland navigation (ADN)	2331
	Marine transport in accordance with IMDG	2331
	Air transport in accordance with IATA	2331

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14.2	UN proper shipping name	
	Transport by land according to ADR/RID	Zinc chloride, anhydrous, mixture
	- Classification Code	C2
	- Label	
	- ADR LQ	5 kg
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (E)
	Inland navigation (ADN)	Zinc chloride, anhydrous, mixture
	- Classification Code	C2
	- Label	
	Marine transport in accordance with IMDG	Zinc chloride, anhydrous, mixture
	- EMS	F-A, S-B
	- Label	
	- IMDG LQ	5 kg
	Air transport in accordance with IATA	Zinc chloride, anhydrous, mixture
	- Label	
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	8 (N)
	Inland navigation (ADN)	8 (N)

- EMS
- Label
- IMDG LQ

Ш

14.3 Transport hazard class(es) Transport by land according to ADR/RID Inland navigation (ADN) Marine transport in accordance with 8 IMDG Air transport in accordance with IATA 8

14.4 Packing group Transport by land according to ADR/RID

> Inland navigation (ADN) Ш

> Marine transport in accordance with III IMDG

> Air transport in accordance with IATA III

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14.5	Environmental hazards Transport by land according to ADR/RID	yes
	Inland navigation (ADN)	yes
	Marine transport in accordance with IMDG	MARINE POLLUTANT
	Air transport in accordance with IATA	yes

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information	
15.1 Safety health and environmental regulations/legislation specific for the substance or mixture	

13.1	Salety, nearth and environmental	regulations/egislation specific for the substance of mixture
	EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
	TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
	- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
	- VOC (2010/75/CE)	not applicable
15.2	Chemical safety assessment	
		For this substance a chemical safety assessment has been carried out. Used data correspond to the CSReport of the manufacturer. The manufacturer is accountable for the accuracy.

#### **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

- H400 Very toxic to aquatic life.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.
- H335 May cause respiratory irritation.
- H314 Causes severe skin burns and eye damage.
- H302 Harmful if swallowed.

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ADR = Accord européen relatif au transport international des marchandises Dangereuses par



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16.2 Abbreviations and acronyms:	yms:	acron	and	Abbreviations	16.2
----------------------------------	------	-------	-----	---------------	------

Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level LL50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative

#### 16.3 Other information **Customs Tariff**

not determined

none

Acute Tox. 4: H302 Harmful if swallowed. (Weight of evidence) Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Weight of evidence) STOT SE 3: H335 May cause respiratory irritation. (Weight of evidence) Aquatic Acute 1: H400 Very toxic to aquatic life. (Weight of evidence) Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Weight of evidence)

Modified position

**Classification procedure** 

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		с <u>г</u>			Life cycle st	age covered by	ES		Se	п		
	Exposure Scenario Title	nemic				End use			ctor c	roce	A	Ēņ
Number (ES)		Chemical product category [PC]	Manufacture	Formulation	Use at industrial site	Widespread use by professional workers	consumer use	Service life	Sector of use category [SU]	Process category [PROC]	Article Category [AC]	Environmental release category [ERC]
1	Ammonium zinc chloride recovery Manufacture (IU001)	19, 20, 21	Х		Х			х	8, 9	2, 3, 5, 9, 8b, 26		1
8	Electroplating Manufacture (IU001)	7, 14	х		Х			Х	15, 17, 0.NACE C26.1.1:		2, 7	2, 5
11	steel surface treatment prior to hot-dip galvanizing	38			Х			х	8, 14, 15, 18, 19, 0.Nace C25.6.1	2, 4, 8b, 25, 13	1, 2, 3, 7	′5,8a,10a, 11a
13	Laboratory reagents	19, 21, 28, 39	Х		Х	х		х	10, 24	1, 2, 3, 5, 8b, 9, 15		1, 2, 4, 6a, 6b, 8a, 8d
15	Zinc production by pyrometallurgy	7			Х			Х	14, 0.NACE C24.4.3			1
18	Production of coatings, paints, inks, enamels, varnishes	1, 9a, 9b, 9c, 14, 15, 18, 26, 32	Х		Х			Х	5, 8, 9, 10, 11, 12, 13, 14	1, 2, 3, 4, 5, 8b, 9		1, 2, 3, 4, 5, 7
21	Use of AZC containing paper coatings in a mixture	1, 9a, 9b, 9c, 15, 18			Х	Х		Х	6b, 10	4, 5, 6, 8b, 9, 10, 13, 19	0	8a, 8d, 10a, 10b
23	Use of AZC containing coatings for in a mixture	15, 23, 34			Х			Х	10, 5	4, 5, 6, 8b, 9, 13, 19	5, 6	8a, 8d, 10a, 11a
25	Batteries /fuel cells	14, 19, 20, 21		Х	Х			Х	0.NACE- CodeC2 7.2, 16	• 13, 14, 3, 5	3	2, 5
27	Production of polymermatrices, plastics and related preparations	19, 20, 32, 33	Х	Х	Х			Х	10, 12	2, 3, 5, 6, 8b, 9, 10, 13, 14, 21, 24	1, 2, 3, 13	1, 3, 5, 6a
30	Additive / component for the production of Lubricants / Grease / Metal working fluids	14, 24, 25, 32		Х	Х	Х	х	Х	10, 18	3, 4, 5, 8b, 9, 10, 13	1, 2, 7	1, 3, 2, 5, 6a, 6d, 8b, 9a, 9b, 11a

		<sub>오</sub>			Life cycle st	age covered by	ES		Se			
	Exposure Scenario Title	nemica				End use			Sector of	roces	A	Env
Number (ES)		Chemical product category [PC]	Manufacture	Formulation	Use at industrial site	Widespread use by professional workers	consumer use	Service life	of use category [SU]	Process category [PROC]	Article Category [AC]	Environmental release category [ERC]
31	Use of AZC containing Lubricants / Grease / Metal working fluids	14, 24, 25, 32	Х		Х	Х		Х	17, 18	7, 8a, 8b, 9, 10, 11, 13, 14, 17, 19, 21	1, 11, 2, 7	8a, 8c, 8d, 8f
35	Additive component for production of de-icing products	4, 35, 20			Х			Х	8, 9	3, 5, 8b, 9		2, 5, 8c, 8f
38	Additive for the formulation of biocidal products	37, 8		Х	Х			Х	9	5, 8b, 9		2
41	Additive for the formulation of fertilizers	12, 20, 21, 9b		Х	Х			Х	1, 10, 8	1, 2, 3, 4, 5, 8b, 9, 13		2, 3, 5, 10a, 10b
45	Additive in the formulation of pharma / veterinary products	20, 21, 29		Х	Х			Х	10, 9, 20, 0.Nace C21.1	8b, 9, 5, 3, 2, 13, 14, 15, 1		2, 5, 8a, 8d
12	Use of ammonium zinc chloride based fluxing agents before welding/soldering processes	25, 38, 8			Х	Х		Х	16, 17, 18, 0.Nace C23.9.9	13, 2, 25, 4, 8b	1, 2, 3, 7	10a, 10b, 3, 5, 8a, 8d
29	Use of AZC containing Sealants / Adhesives	1, 14, 19, 20, 24, 32, 9a, 9b, 9c		Х	Х	Х	Х	Х	6b, 11,	10, 11, 13, 14, 17, 19, 21, 7, 8b, 9	1, 2, 11, 7	8a, 8c, 8d
33	Use of AZC containing Polishes / wax blends	14, 25, 31, 9a, 9b, 9c		Х		х	х	Х	18, 9	10, 11, 13, 14, 19, 21, 7, 8a, 8b, 9	11	8a, 8c, 8d, 8f
40	Use of AZC containing cleaning products	8, 35, 39		Х		Х	х	Х	9	10, 11, 13, 8a, 8b, 9		8a
44	Use of cosmetics	28, 35, 39		Х		Х	х	Х	9	10, 11, 8a, 8b, 9		8a
22	Textile and leather coating treatment	15, 19, 20, 21, 23, 34, 35, 9a			Х			Х	5, 8, 9, 10	3, 4, 5, 6, 8b, 9, 13	6, 5	6b, 3
24	Additive in the manufacturing of electricelectronic components	20, 33			Х			Х		3, 5, 8b, 9, 14, 22	2, 4	2, 5

		с <sub>г</sub>			Life cycle st	age covered by	ES		Se	-		
	Exposure Scenario Title	iemica				End use			Sector of	roces	A	Env
Number (ES)		Chemical product category [PC]	Manufacture	Formulation	Use at industrial site	Widespread use by professional workers	consumer use	Service life	f use category [SU]	Process category [PROC]	Article Category [AC]	Environmental release category [ERC]
26	Component for production of rubber, resins and related preparations	9a, 9b, 18, 19, 20, 24, 33, 32	х	х	х			х	10, 11	3, 5, 6, 8b, 9, 10, 13, 14, 21, 24	10	2, 3, 4, 5, 6d, 10a, 11a
28	Additive / component for the production of Sealants / Adhesives / Mastics	1, 14, 19, 20, 24, 32, 9a		Х	Х			Х	8, 10	10, 11, 13, 14, 20, 21, 24, 3, 5, 8b, 9	1, 2, 7, 11	1, 2, 3, 5, 6a, 6d, 8b, 8c, 10a, 10b, 11a
32	Additive / component for the production of Polishes / wax blends	9a, 9b, 9c, 14, 25, 31		Х	Х	Х	Х	Х	10, 18, 9	10, 11, 13, 19, 3, 4, 5, 7, 8b, 9	1, 2, 7	1, 2, 3, 5, 6a, 6d, 8a, 8b
34	Use of AZC containing catalysts in a mixture	19, 2, 20, 40, 9a, 9b, 9c			Х			Х	10, 8, 9	2, 3, 5, 1, 14, 8b, 9		1, 4, 5, 6a, 6b
37	Additive for the formulation of animal feedstuffs	20, 29		Х				Х	4	3, 5, 8b, 9		2, 10a
39	Additive for the formulation of cleaning products	8, 35, 37		Х	Х			Х	9, 10	5, 8b, 9		2, 8a, 8b
43	Additive in the formulation of cosmetics	28, 35, 39		х	Х			Х	10	1, 13, 14, 15, 2, 3, 5, 8b, 9		
36	Use of AZC containing de-icing products	4, 20, 35		Х		Х	Х	Х	9, 18	7, 8a, 8b, 9, 10, 11, 13, 14, 19, 21		8a, 10a
42	Use of AZC containing fertilizer's formulations	9b, 12, 20		Х		Х	Х	Х	9, 1	7, 8a, 8b, 9, 10, 11, 13, 19, 2, 26		8a, 8b, 8d, 8e, 9b, 10b
46	Use of of Pharma / veterinary products	20, 21, 29		Х		Х	Х		20	8a, 8b, 9, 11, 10		8a
2	Ammonium zinc chloride production and refining Manufacture (IU001)	20, 21	х		Х			Х	8, 9	2.CS2, 3, 5, 8b, 9, 26		1
10	Production of Ammonium zinc chloride based fluxing agents Manufacture (IU001)	19, 20, 21	Х		Х			Х	8, 9, 10	2, 3, 5, 8b, 9, 15		2, 5, 1, 6a

Number (ES)	Exposure Scenario Title	Chemical product category [PC]	Life cycle stage covered by ES					Se	σ			
								ctor (	roce	Р	Ē	
			Manufacture	Formulation	Use at industrial site	Widespread use by professional workers	consumer use	Service life	of use category [SU]	ss category [PROC]	Article Category [AC]	Environmental release category [ERC]
14	Catalytic agent	20, 19			х	Х		Х	9, 10	4, 5, 8b, 9, 15		4, 6b
20	Component for paper coating or treatment for paper products	9a, 15, 18, 21, 20, 23, 34, 35			Х			Х	6b, 7, 8, 9, 10	3, 4, 5, 6, 8b, 9, 13		6b, 2