

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

- **1.1 Product identifier**
- **Trade name:** FLUXAL 1216 BRASAGE FLAMME
- **Article number:** 1216/2.000
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC38 Welding and soldering products, flux products
- **Technical function** Brazing flux
- **Application of the substance / the mixture**
Refer to the appendices on exposure scenarios.
Brazing flux
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Specialised Welding Products Ltd
- **Unit 1, Farringdon Industrial Centre, Farringdon, Nr Alton, Hampshire GU34 9DD, UK**
- **Tel: +44 (0)1420 588180, Email: sales@wsp.uk.net**
- **1.4 Emergency telephone number: ORFILA : +44 (0)1420 588180**
- **www.specialisedwelding.co.uk**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms** GHS05, GHS07, GHS08, GHS09
- **Signal word** Danger

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

lithium chloride
ammonium fluoride
zinc chloride
potassium hexafluoroaluminate

- **Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.
H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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 the substances listed below :

- **Dangerous components:**

CAS: 7447-41-8 EINECS: 231-212-3	lithium chloride ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-25%
CAS: 13775-52-5 EINECS: 237-409-0	potassium hexafluoroaluminate ☠ STOT RE 2, H373; ⚠ Eye Irrit. 2, H319	10-25%
CAS: 7646-85-7 EINECS: 231-592-0 Reg.nr.: 01-2119472431-44-xxx	zinc chloride ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≥10- <25%
CAS: 12125-01-8 EINECS: 235-185-9 Reg.nr.: 01-2119974147-30-xxx	ammonium fluoride ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Eye Dam. 1, H318	≥3- ≤10%

- **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**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- In case of unconsciousness place patient stably on their side for transportation.*
- **After skin contact**
*Immediately wash with water and soap and rinse thoroughly.
 Wash clothes before reusing them. Wash carefully shoes before putting on them.
 Beware of the product that can remain between the skin and clothing, watch, shoes, etc.*
- **After eye contact** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing**
*Call for a doctor immediately.
 Do NOT induce vomiting, do NOT drink, seek medical advice*
- **4.2 Most important symptoms and effects, both acute and delayed**
*For symptoms and effects due to contained substances, see section 11.
 Acid burns of the skin and / or eyes.*
- **Information for doctor** *Contains fluoride compounds*
- **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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Use fire fighting measures that suit the environment.*
- **5.2 Special hazards arising from the substance or mixture**
*Hydrogen fluoride (HF)
 During heating or in case of fire poisonous gases are produced.
 Hydrogen chloride (HCl)
 Possibility of formation of toxic and/or corrosive decomposition products.
 Vapor release of hot zinc chloride.*
- **5.3 Advice for firefighters**
- **Protective equipment:**
*Mount respiratory protective device.
 Wear fully protective suit.*
- **Additional information**
*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 This substance is very toxic to aquatic organisms. Water from the fire extinguishing system that has been contaminated with this product must be kept in a closed environment and must not be discharged into the aquatic environment or into any drains or sewers.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.



Wear protective equipment. Keep unprotected persons away.

- **6.2 Environmental precautions:**
*Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**
*Use neutralising agent.
 Dispose of 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.*

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Thorough dedusting.

Ensure good ventilation/extraction at the workplace.

Handle in accordance with good hygiene and safety at work. Before the break and after work, wash your hands thoroughly. Remove and wash contaminated clothing before reuse. Provide safety showers and eye fountains in workshops where the mix is handled consistently.

· **Information about protection against explosions and fires:**

Keep respiratory protective device available.

Requirements for storage rooms are applicable to the workshops or the mixture is handled. Wash hands after use. Remove and wash contaminated clothing before reuse. Provide safe showers and eye fountains in workshops where the mixture is handled consistently. The workplace must be ventilated and the fumes collected at the source of emission. Wear appropriate safety shoes and gloves. Handle in well-ventilated areas. Prohibiting access to unauthorized persons.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Do not store with bases and oxidizing agents.

· **Further information about storage conditions:**

Storage time: refer to the label or product analysis certificate where applicable.

Keep receptacle tightly sealed.

Keep away from food, beverages and animal feed.

This product is hygroscopic.

· **Storage class**

· **Class according to regulation on flammable liquids:** Void

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

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

CAS: 7646-85-7 zinc chloride

WEL Short-term value: 2 mg/m³

Long-term value: 1 mg/m³

CAS: 12125-01-8 ammonium fluoride

WEL Long-term value: 2.5 mg/m³

as F

· **DNELs**

CAS: 7646-85-7 zinc chloride

Oral DNEL 0.83 mg/kg bw/day (user long term systemic effect)
of Zn

Dermal DNEL 8.3 mg/kg bw/day (user long term systemic effect)
of Zn
8.3 mg/kg bw/day (worker long term systemic effect)
of Zn

Inhalative DNEL 1.3 mg/m³ (user long term systemic effect)
of Zn
1 mg/m³ (worker long term systemic effect)
of Zn

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CAS: 12125-01-8 ammonium fluoride

Dermal	DNEL	0.36 mg/kg bw/day (worker long term systemic effect)
		0.36 mg/kg bw/day (worker short term systemic effect)
Inhalative	DNEL	2.5 mg/m ³ (worker long term systemic effect)
		2.5 mg/m ³ (worker long term local effect)
		2.5 mg/m ³ (worker short term systemic effect)

· **PNECs**

CAS: 7646-85-7 zinc chloride

PNEC	0.0206 mg/l (Fresh water)
	AF=1
	0.1 mg/l (STP microorganismes station d'eaux usées)
PNEC	AF=1
	0.0061 mg/l (Sea water)
	AF=1
PNEC	117.8 mg/kg (sediment (fresh water))
	dry weight, AF=1
	35.6 mg/kg (soil)
PNEC	AF=1
	56.5 mg/kg (sediment (sea water))
	dry weight, AF=1

CAS: 12125-01-8 ammonium fluoride

PNEC	0.89 mg/l (Fresh water)
	51 mg/l (STP microorganismes station d'eaux usées)
PNEC	0.12 mg/kg (soil)

· **Additional information:** The lists that were valid during the creation 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.

Avoid contact with the eyes and skin.

Safety showers and eye wash stations should be strategically located in areas where hazardous products are stored or used. Their location should be close enough for immediate use, but at a distance that would not create additional danger.

· **Breathing equipment:**

Provide an adequate ventilation, through the installation of local exhaust ventilation-unit and a general exhaust system. Applying recommended technical measures, it is not necessary to wear personal protective equipment.

Avoid inhalation of dust. Insulating breathing apparatus. It is recommended to set up a smoke suction system closer to issuance. In case of insufficient ventilation, wear suitable respiratory equipment. In case of formation of vapors and aerosols, wear a respirator with appropriate filter.

Filter P2.

As the use of appropriate engineering measures should always take priority over personal protective equipment, ensure adequate ventilation in the workplace, provide local exhaust ventilation, where possible, and effective general air exchange systems, except for closed processes or processes operating outdoors. Workplace concentrations should be kept below the indicated limit values.

· **Protection of hands:**

Protective gloves.

Use appropriate chemical resistant protective gloves complying with NF EN374. Selection of gloves should be made according to the application and the duration of use at the workplace. Protective gloves must be selected according to the workplace: other chemicals that can be handled, necessary physical protection (cut,

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puncture, thermal protection), dexterity required.

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

Due to a lack of 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

· **Glove material**

Recommended characteristics: Waterproof gloves complying with the NF EN374 standard.

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.

Nitrile rubber, NBR

· **Penetration time of glove material**

break time : >480 min.

thickness of the glove: : >0.7 mm.

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

· **Eye protection:**

Tightly sealed goggles.

Avoid contact with eyes. Use eye protection designed to prevent splashing. Before handling, it is necessary to wear safety glasses in accordance with the NF EN166 standard. In case of increased risk, use a face shield for face protection. Wearing protective glasses does not constitute protection. Contact lens wearers are advised to use corrective lenses during work or may be exposed to irritating vapors. Provide fountains in the workshops or the product is handled consistently.

· **Limitation and supervision of exposure into the environment**

It is important to test emissions from ventilation systems or manufacturing equipment to ensure they comply with the requirements of legislation on protection of the environment. In some cases it will be necessary to equip the material for manufacturing a gas scrubber or filter or change technically to reduce emissions to acceptable levels.

· **Risk management measures**

Employer is obligated to ensure, that applied personal protective measures and cloths and shoes have protective and usable properties, and ensure their proper washing, preserving, fixing and disinfection.

Training on chemical hazards, use and exposure to products must be provided by the employer to prevent any risk. The instructions to be observed must also be brought to the knowledge of employees and users (hygiene rules, operating procedures, procedures, prohibition of access to certain areas, use of collection devices at source, obligation to wear PPE, etc).

Risk management measures (RMM) and operating conditions (OC) were calculated using tools. Users should ensure that exposures are under control. in case of deviation, a step of calibration of the results (scaling) must be used. Expert judgment may be required to validate the approach and results.

ECETOC TRA.

For exposure control related to environmental protection, refer section 12.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Powder

Colour: White

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point: undetermined

Initial boiling point and boiling range: undetermined

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· Flash point:	<i>Not applicable</i>	
· Flammability (solid, gaseous)	<i>Not determined.</i>	
· Decomposition temperature:	<i>Not determined.</i>	
· Self igniting:	<i>Product is not self igniting.</i>	
· Explosive properties:	<i>Product does not present an explosion hazard.</i>	
· Explosion limits:		
Lower:	<i>Not determined.</i>	
Upper:	<i>Not determined.</i>	
· Vapour pressure at 20 °C:	<i>1 hPa</i>	
· Density:	<i>Not determined</i>	
· Relative density	<i>Not determined.</i>	
· Vapour density	<i>Not applicable.</i>	
· Evaporation rate	<i>Not applicable.</i>	
· Solubility in / Miscibility with Water:	<i>Soluble</i>	
· Partition coefficient: n-octanol/water:		
7447-41-8	<i>lithium chloride</i>	<i>-2.7</i>
12125-01-8	<i>ammonium fluoride</i>	<i>-4.37</i>
· Viscosity:		
dynamic:	<i>Not applicable.</i>	
kinematic:	<i>Not applicable.</i>	
Solids content:	<i>100.0 %</i>	
· 9.2 Other information		
7447-41-8	<i>lithium chloride</i>	<i>hygroscopic</i>
7646-85-7	<i>zinc chloride</i>	<i>hygroscopic</i>

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known*
- **10.4 Conditions to avoid** *Avoid humidity.*
- **10.5 Incompatible materials:**
 - Avoid strong bases.*
 - Avoid strong oxidizers*
- **10.6 Hazardous decomposition products:**
 - Hydrogen fluoride*
 - Danger of toxic fluorine based pyrolysis products*
 - Hydrogen chloride (HCl)*
 - Poisonous gases/vapours*
 - Corrosive gases/vapours*

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
 - Harmful if swallowed or if inhaled.*

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

CAS: 7646-85-7 zinc chloride

Oral	LD50	1,100 mg/kg (rat) (528 mg Zn/kg bw)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50	1,260 mg/l (rat) (30min)

CAS: 12125-01-8 ammonium fluoride

Oral	LD50	200-1,999 mg/kg (rat) (OECD guideline 401 - oral acute toxicity)
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CAS: 60304-36-1 potassium fluoroaluminates

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,100 mg/kg (rat)
Inhalative	LC50/4 h	4,47 mg/l (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

CAS: 7646-85-7 zinc chloride

Irritation of skin	corrosion/irritation peau	(rabbit) (1%, 5 days)
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Causes severe skin burns and eye damage.

· **Serious eye damage/irritation**

CAS: 12125-01-8 ammonium fluoride

Irritation of eyes	corrosion/irritation yeux	(rabbit eye) Risk of serious eye injury - REACH read-across approach
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Causes serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Repeated dose toxicity**

CAS: 7646-85-7 zinc chloride

Oral	NOAEL oral	3,000 mg/kg (mouse) (OCDE ligne directrice 408) 13 days, by read across
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· **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**

CAS: 7646-85-7 zinc chloride

reproductive toxicity	30 (mouse) (OCDE ligne directrice 416) no effect, by read-across
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Based on available data, the classification criteria are not met.

· **STOT-single exposure**

May cause respiratory irritation.

· **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Type of test** **Effective concentration** **Method** **Assessment**

CAS: 7646-85-7 zinc chloride

CL50 / 96h	0,439 mg/l (fish) of Zn (LC50(96h) = 0,78 mg Zn/l, pimephales promelas, litterature) (LC50(96h) = 0,169 mg Zn/l, oncorhynchus mykiss, litterature)
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CE50 / 48h	1.22 mg/l (daphnia) as Zn, daphnia magna (0.147-0.413 mg Zn / liter, ceriodaphnia dubia)
CE50 / 72h	0.136 mg/l (algae) as Zn, selenastrum capricornutum (literature)
CAS: 12125-01-8 ammonium fluoride	
CL50 / 96h	209 mg/l (fish) (OECD guideline 203 - fish acute toxicity) cyprinus carpio - REACH read across approach
CE50 / 48h	101 mg/l (daphnia) (OECD guideline 202 - daphnia acute toxicity) daphnia magna - REACG read across approach
L(E)C	364 mg/L (fish) (96h)
CAS: 60304-36-1 potassium fluoroaluminates	
CE50 / 48h	22.9 mg/l (daphnia) (daphnia magna)

· 12.2 Persistence and degradability

Zinc is naturally present in the environment.

In water, zinc binds to the suspended solids in the water column. This bonding and subsequent sedimentation allow for rapid removal of zinc.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil

7646-85-7	zinc chloride	2.2
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· Ecotoxicological effects:
· Remark: Toxic for fish

· Additional ecological information:
· General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely 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


Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

Must apply in all cases all local, regional and national laws and European directives. The end user must determine the specific code of waste for each industry using the appropriate European Code European Waste Catalogue. It is recommended that all details are specified by the responsible waste.

HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP8	Corrosive
HP14	Ecotoxic

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- **Uncleaned packagings:**
- **Recommendation:**
 Dispose of packaging according to regulations on the disposal of packagings.
 Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
 Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
 Neutralize the product before destruction (pH between 5.5 and 8.5) according to local regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information


- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · 14.1 UN-Number
· ADR, IMDG, IATA | UN3260 |
| · 14.2 UN proper shipping name
· ADR

· IMDG


· IATA | UN3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE), ENVIRONMENTALLY HAZARDOUS

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE), MARINE POLLUTANT

CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (ZINC CHLORIDE) |
| · 14.3 Transport hazard class(es)
· ADR, IMDG



· Class
· Label | 8 Corrosive substances.
8 |
| · IATA



· Class
· Label | 8 Corrosive substances.
8 |
| · 14.4 Packing group
· ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards:

· Marine pollutant:
· Special marking (ADR): | Product contains environmentally hazardous substances:
zinc chloride
Symbol (fish and tree)
Symbol (fish and tree) |
| · 14.6 Special precautions for user
· Danger code (Kemler):
· EMS Number:
· Segregation groups
· Stowage Category
· Stowage Code

· Segregation Code | Warning: Corrosive substances.
80
F-A,S-B
Acids
A
SW1 Protected from sources of heat.
SW2 Clear of living quarters.
SG35 Stow "separated from" SGG1-acids |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

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· Transport/Additional information:

· ADR

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5 kg

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· Transport category

3

· Tunnel restriction code

E

· IMDG

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5 kg

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· UN "Model Regulation":

UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC,
N.O.S. (ZINC CHLORIDE), 8, III, 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 E2** Hazardous to the Aquatic Environment

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

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

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65

· National regulations

· **Classification according to VbF:** Void

· Technical instructions (air):

Class	Share in %
III	2.5-10

· **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

· **Customs Combined Nomenclature :** 38.10.90.90.00

· 15.2 Chemical safety assessment:

The information on the exposure scenarios of the substances was compiled in the different parts of the SDS of the mixture on the basis of the Lead Component IDentification (LCID) or "top-bottom approach process".

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.

We can not anticipate all conditions under which this information and our products or the combination of these with others will be used. We disclaim all responsibility for the safety and suitability of our products alone or in combination with others. It is up to the buyers to conduct their own tests to determine the safety and adaptation of each product used alone or with other products for their own use.

Unless prior written our products are sold without warranty and purchasers assume any liability for loss or damages of any kind suffered by themselves or third parties, either from handling or use of our products they are alone or with others. In case of finding of a difference when using the product we ask you to contact our technical service.

The information contained in this Material Safety Data Sheet is based on the knowledge of this product as well as national and European laws knowing that the working conditions of its users are not known and thus escape our control. The product should not be used for purposes other than those for which it was designed and prepared, it can be used without prior written knowledge of instructions for their use. It is up to the user

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to take all measures necessary to comply with these requirements by law.

Training advice: Training awareness of the dangers of chemicals, integration labeling, safety data sheets, personal protection and good hygienic measures. response training for chemical incidents. First aid for chemical exposure, including the use of safety eye wash and showers. The use of personal protective equipment, including selection, compatibility, maintenance, standards and fit. method of classification for mixtures: Calculation method.

· Relevant phrases

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· * Data compared to the previous version altered.