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## FLUX

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

### 1.1 Product identifier.

Product Name: FLUX

1.2 Relevant identified uses of the substance or mixture and uses advised against.

Paint stripper in welding procedures.

## Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

#### KLK Electro Materiales, S.L.U. Company:

Address:	Camino de la Peñona 38B - Apdo 333	
City:	33211 Gijón	
Province:	Asturias	
Telephone:	+34 985 321850	
Fax:	+34 985 309307	
E-mail:	comercial@klk.es	
Web:	www.klk.es	

1.4 Emergency telephone number: +34 985 321850 (Only available during office hours; Monday-Friday; 08:00-14:00)

## **SECTION 2: HAZARDS IDENTIFICATION.**

## 2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008: Acute Tox. 4 : Harmful if swallowed. Aquatic Acute 1 : Very toxic to aquatic life. Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects. Eye Dam. 1 : Causes serious eye damage. STOT SE 3 : May cause respiratory irritation. Skin Corr. 1B : Causes severe skin burns and eye damage.

## 2.2 Label elements.

## Labelling in accordance with Regulation (EC) No 1272/2008: Pictograms:



Signal Word:

Danger

- Hazard statements: H302
  - Harmful if swallowed. Causes severe skin burns and eye damage.
  - H314 H335 May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects. H410

Precautionary statements:

P264	Wash with water thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTRE and/or doctor if the person feels unwell.
P301+P330+P3	331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P501 Dispose of contents / container through an authorized waste manager, according to current regulations.

Contains: ammonium chloride zinc chloride

## 2.3 Other hazards.

The mixture does not contain substances classified as PBT. The mixture does not contain substances classified as vPvB. The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3.1 Substances.

Not Applicable.

#### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification - Regulation (EC) No 1272/2008	
Identifiers	Name	Concentrate	Classification	Specifics concentration limits and Acute toxicity estimate
Index No: 030-003- 00-2 CAS No: 7646-85-7 EC No: 231-592-0 Registration No: 01- 2119472431-44-XXXX	[2] zinc chloride	25 - 50 %	Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Skin Corr. 1B, H314	STOT SE 3, H335: C ≥ 5 %
Index No: 017-014- 00-8 CAS No: 12125-02-9 EC No: 235-186-4 Registration No: 01- 2119489385-24-XXXX	[2] ammonium chloride	10 - 25 %	Acute Tox. 4 *, H302 - Eye Irrit. 2, H319	-

(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

\* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[2] Substance with a national workplace exposure limit (see section 8.1).

## **SECTION 4: FIRST AID MEASURES.**

## 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

## Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

#### Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

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## <u>Skin contact.</u>

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners. The use of personal protective equipment is recommended for people providing first aid (see section 8).

### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

Ingestion: Remove product from mouth. Drink 1-2 glasses of water or milk immediately. Consult a doctor.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Contact with eyes may cause irreversible damage.

## 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

## **SECTION 5: FIREFIGHTING MEASURES.**

The product is NOT classified as flammable, in case of fire the following measures should be taken:

## 5.1 Extinguishing media.

#### Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

#### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

### Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

#### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

## SECTION 6: ACCIDENTAL RELEASE MEASURES.

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

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

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

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

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## **SECTION 7: HANDLING AND STORAGE.**

### 7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

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

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

_		Qualifying quant the applic	
Code	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

## 7.3 Specific end use(s).

Paint stripper in welding procedures.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
		United	Eight hours		1
		Kingdom [1]	Short term		2
zinc chloride	7646-85-7	Éire [2]	Eight hours		1
	/040-05-/	cire [2]	Short term		2
		Portugal [3]	Eight hours		1
			Short term		2
		United	Eight hours		10
			Kingdom [1]	Short term	
ammonium chloride	12125-02-9	Éiro [2]	Eight hours		10
ammonium chioride	12125-02-9	)2-9 Éire [2]	Short term		20
		D. 1	Eight hours		10
	Portugal [3]		Short term		20

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive. [2] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[3] De acordo com a Norma Portuguesa 1796 adotou pelo Instituto português de qualidade.

The product does NOT contain substances with Biological Limit Values.

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Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
zinc chloride	DNEL	Inhalation, Chronic, Systemic effects	1 (mg/m <sup>3</sup> )
CAS No: 7646-85-7	(Workers)		
EC No: 231-592-0			
ammonium chloride	DNEL	Inhalation, Chronic, Systemic effects	33,5
CAS No: 12125-02-9	(Workers)		$(mg/m^3)$
EC No: 235-186-4			

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

## 8.2 Exposure controls.

## Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %				
Uses:	Paint stripper in welding procedures.				
Breathing protecti					
PPE:	Filter mask for protection against gases and particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				
CEN standards:	EN 136, EN 140, EN 405				
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach				
Observations:	the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.				
Filter Type needed:	A2				
Hand protection:					
PPE:	Non-disposable protective gloves against chemicals.				
Characteristics:	«CE» marking, category III. Check the list of chemicals for which the glove has been tested.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.				
Observations:	They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.				
Material:	Breakthrough time (min.):         > 480         Material thickness (mm):         0,35				
Eye protection:					
PPE:	Protective goggles with built-in frame.				
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Chemical protective clothing				
Characteristics:	«CE» marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.				
CEN standards:	EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.				

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PPE:	Anti-static safety footwear against chemicals.
Characteristics:	«CE» marking, category III. Check the list of chemicals against which the footwear is resistant.
CEN standards:	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345
Maintenance:	For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed.
Observations:	The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

## 9.1 Information on basic physical and chemical properties.

Physical state: Liquid Colour: Clear Odour: Odourless Odour threshold: Not applicable (Not relevant for this type of product) Melting point: Not applicable (Not relevant for this type of product) Freezing point: Not available (See freezing point of components). Boiling point or initial boiling point and boiling range: Not applicable (Not relevant for this type of product) Flammability: It is not a readily flammable solid. (Pre-screening test as part of the procedure described in Part III, subsection 33.2.1 of the UN Manual of Tests and Criteria.) Lower explosion limit: Not applicable (Not relevant for this type of product) Upper explosion limit: Not applicable (Not relevant for this type of product) Flash point: Not applicable (Not relevant for this type of product) Auto-ignition temperature: Not applicable (Not relevant for this type of product) Decomposition temperature: Not applicable (Not relevant for this type of product) pH: 2,4 (100%) (pH Meter/potentiometric/electrometric method) Kinematic viscosity: Not applicable (Not relevant for this type of product) Solubility: Completely soluble Hydrosolubility: Not applicable (Not relevant for this type of product) Liposolubility: Not applicable (Not relevant for this type of product) Partition coefficient n-octanol/water (log value): Not applicable (Not relevant for this type of product) Vapour pressure: Not applicable (Not relevant for this type of product) Absolute density: 1500 kg/m3 (calculation/estimation) Relative density: 1,500 (Immersed body method (DIN 53217)) Relative vapour density: Not applicable (Not relevant for this type of product) Particle characteristics: Not applicable (Not relevant for this type of product)

## 9.2 Other information

## Other safety characteristics

Viscosity: Not applicable (Not relevant for this type of product) Dropping point: Not applicable (Not relevant for this type of product) Blink: Not applicable (Not relevant for this type of product) % Solids: Not applicable (Not relevant for this type of product)

## SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

The product does not present hazards by their reactivity.

#### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

#### 10.4 Conditions to avoid.

- Avoid contact with bases.

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## 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

### **10.6 Hazardous decomposition products.**

Depending on conditions of use, can be generated the following products: - Corrosive vapors or gases.

## SECTION 11: TOXICOLOGICAL INFORMATION.

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

Splatters in the eyes can cause irritation and reversible damage.

## Toxicological information about the substances present in the composition.

Name	Acute toxicity			
Name	Туре	Test	Kind	Value
		LD50	Rat male	1100 mg/kg bw [1]
zinc chloride	Oral	[1] Acute Zinc intoxication:Comparison of the Antidotal Efficacy of Several Chelating Agents. (Domingo J L, Llobet J M, Paternain J L and Corbella J) 1988		
	Dermal			
CAS No: 7646-85-7 EC No: 231-592-0	Inhalation			
		LD50	Rat	1410 mg/kg bw [1]
ammonium chloride	Oral		AG, Report v,83/44, rat/ora	on the study of the acute al, 1983
	Dermal			
CAS No: 12125-02-9 EC No: 235-186-4	Inhalation			

a) acute toxicity;

Product classified: Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE): Mixtures: ATE (Oral) = 877 mg/kg

b) skin corrosion/irritation;Product classified:Skin Corrosive, Category 1B: Causes severe skin burns and eye damage.

c) serious eye damage/irritation; Product classified: Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation; Not conclusive data for classification.

e) germ cell mutagenicity; Not conclusive data for classification.

f) carcinogenicity; Not conclusive data for classification.

g) reproductive toxicity; Not conclusive data for classification.

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h) STOT-single exposure;Product classified:Specific target organ toxicity following a single exposure, Category 3: May cause respiratory irritation.

i) STOT-repeated exposure; Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

## 11.2 Information on other hazards.

## Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health. **Other information** 

There is no information available on other adverse health effects.

## SECTION 12: ECOLOGICAL INFORMATION.

## 12.1 Toxicity.

Name	Ecotoxicity				
Name	Туре	Test	Kind	Value	
	Fish	LC50 LC50 LC50	Pimephales promelas Menidia beryllina Salmo gairdneri (Oncorhynchus mykiss)	96.2 mg/L (96 h) [1] 174 mg/L (96 h) [2] 127 mg/L (96 h) [3]	
ammonium chloride		<ol> <li>Mayes M.A. et al, Env.Tox. Chem. 5, 437-442 (1986)</li> <li>Miller,D.C. et al., Arch. Environ. Contam. Toxicol. 19, 40-48, (1990)</li> <li>Thurston, R.V. and Russo, R. C., Trans. Am. Fish. Soc., 112(5), 696-704(1983)</li> </ol>			
	Aquatic	LC50 (survival) EC50	Daphnia magna Daphnia magna		
	invertebrates	[1] Gersich 443-447 (1		D. L., Env. Tox. Chem. 5,	
		[2] Dowde (1965)	n,B.F., Bennett,H.J.,	JWPCF 37(9), 1308-1316,	
		EC50 LC50	Navicula sp. Chlorella vulgaris	90.4 mg/L (10 d) [1] 5080 mg/L (5 d) [2]	
CAS No: 12125-02-9 EC No: 235-186-4	Aquatic plants	[2] Przytoc	al,W., Mar. Biol. 43(4 ka-Jisiak, M. et al, A LOGICA POLONICA,2		

## 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

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## 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name		Bioaccumulation			
		Log Pow	BCF	NOECs	Level
ammonium chloride		-4,37	_	_	Verv low
CAS No: 12125-02-9	EC No: 235-186-4	-+,57	-	-	veryiow

## 12.4 Mobility in soil.

No information is available about the mobility in soil. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

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

No information is available about the results of PBT and vPvB assessment of the product.

#### 12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

## 12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

## **SECTION 13: DISPOSAL CONSIDERATIONS.**

## 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:

10 WASTES FROM THERMAL PROCESSES

10 08 wastes from other non-ferrous thermal metallurgy

10 08 04 particulates and dust

Method of treatment according to Directive 2008/98/EC: Recovery R4 Recycling/reclamation of metals and metal compounds

## **SECTION 14: TRANSPORT INFORMATION.**

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID. Transport documentation: Consignment note and written instructions Sea: Transport by ship: IMDG. Transport documentation: Bill of lading Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

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14.1 UN number or ID number.

UN No: UN1840

## 14.2 UN proper shipping name.

Description: ADR/RID: UN 1840, ZINC CHLORIDE SOLUTION, 8, PG III, (E) IMDG: UN 1840, ZINC CHLORIDE SOLUTION, 8, PG III, MARINE POLLUTANT ICAO/IATA: UN 1840, ZINC CHLORIDE SOLUTION, 8, PG III

## 14.3 Transport hazard class(es).

Class(es): 8

## 14.4 Packing group.

Packing group: III

## 14.5 Environmental hazards.



Dangerous for the environment Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-B

## 14.6 Special precautions for user.

Labels: 8



Hazard number: 80 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 1 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Proceed in accordance with point 6. IMDG Code segregation group: 7 Heavy metals and their salts (including their organometallic compounds)

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

The product is not transported in bulk.

## **SECTION 15: REGULATORY INFORMATION.**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E1

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

## 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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## **SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

H302	Harmful if swallowed.
H314	Causes severe skin hurns and ever

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

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4 Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1 Eye Dam. 1 : Serious eye damage, Category 1 Eye Irrit. 2 : Eye irritation, Category 2 STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3 Skin Corr. 1B : Skin Corrosive, Category 1B

Changes regarding to the previous version:

- Change in product identifier (SECTION 1.1)
- Removal of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Added new text (SECTION 2.3).
- Modifications in the first aid measures (SECTION 4.1).
- Modifications in the first aid measures (SECTION 4.2).
- Modification in the firefighting measures (SECTION 5.2).
- Modification in the firefighting measures (SECTION 5.3).
- Modifications in the accidental release measures (SECTION 6.3).
- Elimination of exposure data (SECTION 8.1).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Added new text (SECTION 11.2).
- New section (SECTION 12.6).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- Legislative changes (SECTION 15.1).
- Elimination of abbreviations and acronyms (SECTION 16).
- Addition of abbreviations and acronyms (SECTION 16).

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

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Risk classification system NFPA 704:



Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

- BCF: Bioconcentration factor.
- CEN: European Committee for Standardization.
- DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
- DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
- EC50: Half maximal effective concentration.
- PPE: Personal protection equipment.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.
- IMDG: International Maritime Code for Dangerous Goods.
- LC50: Lethal concentration, 50%.
- LD50: Lethal dose, 50%.
- NOEC: No observed effect concentration.
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data: http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/ Regulation (EU) 2020/878. Regulation (EC) No 1907/2006. Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

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The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.