

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)



## I0001041-ULTRASONIC 7 W

Version 1 Date of compilation: 18/11/2013  
Version 9 (replaces version 8)

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

#### 1.1 Product identifier.

Product Name: ULTRASONIC 7 W  
Product Code: I0001041  
UFI: CDV2-S0TX-R00P-EE6X

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

Degreaser for ferrous parts in ultrasonic machines.

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: **TIERRA TECH, S.L.**  
Address: Parque empresarial de Morero. Parcela P.2, nave 4.  
City: 39611 - GUARNIZO  
Province: Cantabria  
Telephone: 942269543  
E-mail: tierratech@tierratech.es

**1.4 Emergency telephone number:** 942269543 (Only available during office hours; Monday-Friday; 08:00-18:00)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

- Eye Dam. 1 : Causes serious eye damage.
- Skin Corr. 1B : Causes severe skin burns and eye damage.
- Skin Sens. 1 : May cause an allergic skin reaction.

#### 2.2 Label elements.

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

Pictograms:



Signal Word:

**Danger**

Hazard statements:

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.

Precautionary statements:

- P260 Do not breathe vapours.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection.
- 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.
- P310 Immediately call a POISON CENTER or a doctor.

Keep out of the reach of children.  
Do not ingest.  
Restricted to professional users.  
Keep only in original container.

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Contains:  
potassium hydroxide, caustic potash  
disodium metasilicate  
Hydroxyethyl oxooctyl aminoethyl alanine

### 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:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 7320-34-5 EC No: 230-785-7 Registration No: 01-2119489369-18-XXXX	tetrapotassium pyrophosphate	10 - 25 %	Eye Irrit. 2, H319	-
CAS No: 10213-79-3 EC No: 229-912-9 Registration No: 01-2119449811-37-XXXX	disodium metasilicate	5 - 20 %	Met. Corr. 1, H290 – Skin Corr. 1B, H314 – STOT SE 3, H335	-
CAS No: 64265-45-8 EC No: 264-761-2	Hydroxyethyl oxooctyl aminoethyl alanine	1 - 5 %	Aquatic Chronic 2, H411 – Eye Irrit. 2, H319 – Skin Sens. 1, H317	-
Index No: 019-002-00-8 CAS No: 1310-58-3 EC No: 215-181-3 Registration No: 01-2119487136-33-XXXX	[2] potassium hydroxide, caustic potash	0.5 - 2 %	Acute Tox. 4 *, H302 – Skin Corr. 1A, H314	Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 %

(\*) 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.

#### Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

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### **Skin contact.**

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.

### **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.

Contact with eyes may cause irreversible damage.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

## **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 CO<sub>2</sub>. 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.

#### **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 not classified as hazardous for the environment, avoid spillage as much as possible.

### **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-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3 Specific end use(s).

Degreasing of ferrous parts by immersion in ultrasonic machine.

## 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>
potassium hydroxide, caustic potash	1310-58-3	United Kingdom [1]	Eight hours		
			Short term		2
		Éire [2]	Eight hours		
			Short term		2

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted 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).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
tetrapotassium pyrophosphate CAS No: 7320-34-5 EC No: 230-785-7	DNEL (Workers)	Inhalation, Chronic, Systemic effects	44,08 (mg/m <sup>3</sup> )
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	10,87 (mg/m <sup>3</sup> )
	DNEL (Workers)	Oral, Chronic, Systemic effects	>70 (mg/Kg bw/day)
disodium metasilicate CAS No: 10213-79-3 EC No: 229-912-9	DNEL (Workers)	Inhalation, Chronic, Systemic effects	6,22 (mg/m <sup>3</sup> )
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	1,55 (mg/m <sup>3</sup> )
	DNEL (Workers)	Dermal, Chronic, Systemic effects	1,49 (mg/kg bw/day)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	0,74 (mg/m <sup>3</sup> )
	DNEL (Consumers)	Oral, Chronic, Systemic effects	0,74 (mg/kg bw/day)

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.

Concentration levels PNEC:

Name	Details	Value
tetrapotassium pyrophosphate CAS No: 7320-34-5 EC No: 230-785-7	Fresh water	0,05 (mg/L)
	Marine water	0,005 (mg/L)
	Intermittent, fresh water	0,5 (mg/L)
	Treatment plant	50 (mg/L)
disodium metasilicate CAS No: 10213-79-3 EC No: 229-912-9	aqua (freshwater)	7,5 (mg/l)
	aqua (marine water)	1 (mg/l)
	aqua (intermittent releases)	7,5 (mg/l)
	STP	1000 (mg/l)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

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### 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.

<b>Concentration:</b>	<b>100 %</b>		
<b>Uses:</b>	<b>Degreaser for ferrous parts in ultrasonic machines.</b>		
<b>Breathing protection:</b>			
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 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.		
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:	A1+B1+P1		
<b>Hand protection:</b>			
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:	PVC (polyvinyl chloride)	Breakthrough time (min.): > 480	Material thickness (mm): 0,35
<b>Eye protection:</b>			
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.		
<b>Skin protection:</b>			
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.		
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.		

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

### 9.1 Information on basic physical and chemical properties.

Physical state: Liquid

Colour: Yellowish

Odour: Characteristic

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: Not applicable/Not available due to the nature/properties of the product

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: >100 °C

Flammability: No es inflamable

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product

Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: Not applicable/Not available due to the nature/properties of the product

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product

Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: 11,8 +/- 0,5 (1%)

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Not applicable/Not available due to the nature/properties of the product

Hydrosolubility: Not applicable/Not available due to the nature/properties of the product

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product

Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 1,38 +/- 0,05 g/ml

Relative vapour density: Not applicable/Not available due to the nature/properties of the product

Particle characteristics: Not applicable/Not available due to the nature/properties of the product

### 9.2 Other information

Viscosity: Not applicable/Not available due to the nature/properties of the product

Explosive properties: Not applicable/Not available due to the nature/properties of the product

Oxidizing properties: Not applicable/Not available due to the nature/properties of the product

Dropping point: Not applicable/Not available due to the nature/properties of the product

Blink: Not applicable/Not available due to the nature/properties of the 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:

- Acids.

### 10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with acids.

### 10.4 Conditions to avoid.

- Avoid contact with acids.

### 10.5 Incompatible materials.

Avoid the following materials:

- Acids.

### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

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### SECTION 11: TOXICOLOGICAL INFORMATION.

#### 11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

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

Name	Acute toxicity				
	Type	Test	Kind	Value	
tetrapotassium pyrophosphate CAS No: 7320-34-5 EC No: 230-785-7	Oral	LD50	Rat	4000 mg/kg	
		NOAEL	Rat	500 mg/Kg bw/day [1]	
		[1] OECD 408			
	Dermal	DL50	Rabbit	2000 mg/Kg [1]	
		[1] OECD 402			
	Inhalation	CL50	Rat	1.1 mg/L [1]	
		[1] OECD 403, EU method B.2			
disodium metasilicate CAS No: 10213-79-3 EC No: 229-912-9	Oral	LD50	Rat	1152-1349 mg/kg bw	
		LD50	Mouse	1200 mg/kg bw [1]	
		LD50	Rat	1152 mg/kg bw [2]	
		LD50	Mouse	770 mg/kg bw [3]	
		LD50	Rat	800 mg/kg bw [4]	
		LD50	Rat	600 mg/kg bw [5]	
			[1] Gloxhuber (1973). Untersuchungen ueber die akute Toxizitaet von Natriummetasilikat.		
			[2] Saiwai K, Ito T, Saito S, Hiraga K, Iwahara S (1980). Safety of the metal scavengers sodium metasilicate and sodium polyphosphate. Internal Report Toho University.		
			[3] Saiwai K, Ito T, Saito S, Hiraga K, Iwahara S (1980). Safety of the metal scavengers sodium metasilicate and sodium polyphosphate. Internal Report Toho University.		
			[4] Schleyer WL and Blumberg JG (1982). Health, safety and environmental aspects of soluble silicates. In Soluble Silicates, Falcone JS (ed). ACS Symposium Series 194, Chapter 4, 49-69.		
		[5] Schleyer WL and Blumberg JG (1982). Health, safety and environmental aspects of soluble silicates. In Soluble Silicates, Falcone JS (ed). ACS Symposium Series 194, Chapter 4, 49-69.			
	Dermal	LD50	Rat	> 5000 mg/kg bw [1]	
		[1] study report, 2004.			
	Inhalation	LC50	Rat	> 2.06 mg/l air (4 h) [1]	
		[1] study report, 2004.			
Hydroxyethyl oxooctyl aminoethyl alanine CAS No: 64265-45-8 EC No: 264-761-2	Oral	DL50	Rat	> 2000 mg/Kg	
	Dermal	DL50	Rat	> 2000 mg/Kg	
	Inhalation				
potassium hydroxide, caustic potash CAS No: 1310-58-3 EC No: 215-181-3	Oral	LD50	Rat	273 mg/kg [1]	
		[1] Fundamental and Applied Toxicology. Vol. 8, Pg. 97, 1987.			
	Dermal				
	Inhalation				

a) acute toxicity;  
Not conclusive data for classification.

Acute Toxicity Estimate (ATE):  
Mixtures:  
ATE (Oral) = 30.769 mg/kg

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

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c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitizer, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Based on available data, the classification criteria are not met.

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			
	Type	Test	Kind	Value
tetrapotassium pyrophosphate CAS No: 7320-34-5 EC No: 230-785-7	Fish	CL50	Oncorhynchus Mykiss	100 mg/L (96 h) [1]
		NOEC	Oncorhynchus Mykiss	100 mg/L (96 h) [2]
		[1] OECD 203 [2] OECD 203		
Aquatic invertebrates	Aquatic invertebrates	CE50	Daphnia Magna	100 mg/L (48 h) [1]
		CE50	Other aquatic organisms	1000 mg/L (3 h) [2]
		NOEC	Daphnia Magna	100 mg/L (48 h) [3]
	[1] OECD 202 [2] SEDIMENTO ACTIVADO, OECD 209 [3] OECD 202			
Aquatic plants	Aquatic plants	NOEC	Algae	100 mg/L (72 h) [1]
		[1] OECD 201		
disodium metasilicate CAS No: 10213-79-3 EC No: 229-912-9	Fish	LC100	Brachydanio rerio (Danio rerio)	250 mg/L (96 h h h) [1]
		LC50	Gambusia affinis	2320 mg/L (96 h) [2]
		[1] Richterich K and Muehlberg B (2001). Silicic acid, disodium salt. Fish, acute toxicity. Final Report R-0100922, Henkel KGaA. [2] Wallen IE, Greer WC and Lasater R (1957). Toxicity to Gambusia affinis of certain pure chemicals in turbid waters. Sew. Industr. Wastes 29, 695-711.		
Aquatic invertebrates	Aquatic invertebrates	EC50	Daphnia Magna	1700 mg/l (48 h) [1]
		[1] study report 1997		
Aquatic plants	Aquatic plants	EC50	Scenedesmus subspicatus	207 mg/l (72 h) [1]
		[1] SIDS Initial Assessment Report for SIAM 18 Paris, France 20-23 April, 2004		



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Hydroxyethyl oxooctyl aminoethyl alanine CAS No: 64265-45-8 EC No: 264-761-2	Fish	CL50	Cyprinus carpio	> 100 mg/l (96 h)
	Aquatic invertebrates	CE50	Daphnia magna	> 100 mg/l (96 h)
	Aquatic plants	CE50r	Pseudokirchneriella subcapitata	128 mg/l (72 h)
potassium hydroxide, caustic potash CAS No: 1310-58-3 EC No: 215-181-3	Fish	LC50	Gambusia affinis	85 mg/l [1]
	Aquatic invertebrates		[1] Occidental Chemical Corporation Niagara Falls, NY 14302-0728	
	Aquatic plants			

### 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.

The components of the product comply with the biodegradability criteria of Regulation (EC) No 648/2004 on detergents.

### 12.3 Bioaccumulative potential.

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

### 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.

## 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: UN1719

### 14.2 UN proper shipping name.

Description:

ADR/RID: UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS DISODIUM METASILICATE / POTASSIUM HYDROXIDE CAUSTIC POTASH), 8, PG III, (E)

IMDG: UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS DISODIUM METASILICATE / POTASSIUM HYDROXIDE CAUSTIC POTASH), 8, PG III

ICAO/IATA: UN 1719, CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS DISODIUM METASILICATE / POTASSIUM HYDROXIDE CAUSTIC POTASH), 8, PG III

### 14.3 Transport hazard class(es).

Class(es): 8

### 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: No

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: 18 Alkalis

### 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.

#### Volatile organic compound (VOC)

VOC content (p/p): 0 %

VOC content: 0 g/l

The product complies with Regulation (EC) No 648/2004 on detergents.

#### Contains in accordance with Regulation (EC) No 648/2004 on detergents:

phosphates	15% - 30%
amphoteric surfactants	< 5%
phosphonates	< 5%

The product is not affected by Directive 2012/18/EU (SEVESO III).

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

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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.

### SECTION 16: OTHER INFORMATION.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Classification codes:

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

Changes regarding to the previous version:

- Changes in the information of the supplier (SECTION 1.3).
- Change in the emergency number (SECTION 1.4).
- Modification in the values of the physical and chemical properties (SECTION 9).

### 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.

Risk classification system NFPA 704:



Health hazard: 3 (Extreme Danger)

Flammability: 0 (Will not burn)

Reactivity: 0 (Stable)

Specific hazard: COR (Corrosive)

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Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
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%.  
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.  
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 (EU) 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).

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.