

# SAFETY DATA SHEET

In accordance with Regulation (EU) 2020/878  
Translation of the original in Spanish



## OXI...NO RUST TRANSFORMER

Version 1 Issue date: 08/28/2017

Version 2 (replaces version 1)

Review date: 02/07/2023

Pages: 14

Print date: 02/07/2023

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

#### 1.1 Product identifier.

Product name: Oxi...No rust transformer

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

Liquid for application on surfaces with ferric rust.

**Disadvised uses:** Uses other than those recommended.

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

Company: Werku Tools SA  
Address: Polígono Industrial Bergondo - Parróquia de Guísamo A8  
City: 15135 - Bergondo  
Province: La Coruna - Spain  
Phone: +34 981 648 119  
Fax: +34 981 610 639  
E-mail: info@werku.com  
Web: www.werku.com / www.oxino.com

#### 1.4 Emergency telephone:

+34 981 648 119 - Werku Tools SA - Available during office hours; Monday to Friday, from 9:00 a.m. to 6:00 p.m.  
+34 915 620 420 - National Toxicology Information Service - Available 24 hours and 365 days.

### SECTION 2: HAZARDS IDENTIFICATION.

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

According to Regulation (CE) 1272/2008:

Aquatic Chronic 3: Harmful to aquatic organisms with long lasting effects.  
Eye Irrit. 2: Causes serious eye irritation.

#### 2.2 Label elements.

##### Labeling according to Regulation (EC) No 1272/2008:

Pictograms:



Word of warning:

**Attention**

Hazard statements:

H319 Causes serious eye irritation.  
H412 Harmful to aquatic organisms with long-lasting harmful effects.

Precautionary advice:

P101 If medical advice is needed, have the container or label at hand.  
P102 Keep out of the reach of children.  
P103 Read carefully and follow all instructions.  
P280 Wear gloves and eye protection glasses.

P305+P351+P338 IF CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses when present and can be done easily. Continue with washing.  
P337+P313 If eye irritation persists: Consult a doctor.  
P501 Dispose of contents or container in accordance with local regulations.

### 2.3 Other dangers.

The mixture does not contain substances classified as PBT (Persistent, Bioaccumulative and Toxic).  
The mixture does not contain substances classified as vPvB (very Persistent and very Bioaccumulative).  
The mixture does not contain substances with endocrine disrupting properties.

Under normal use and in its original form, the product does not have any other negative effects on health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

### 3.1 Substances.

Not applicable.

### 3.2 Mixtures.

Substances that represent a health or environmental hazard according to Regulation (EC) No. 1272/2008, have a community exposure limit assigned to the workplace, are classified as PBT/vPvB or included in the List of Candidates:

Identifiers	Name	Concentration	(*)Classification - Regulations 1272/2008	
			Classification	Limits of concentration specific and Estimation of Acute Toxicity
Index No.: 603-002-00-5 CAS NO: 64-17-5 CE No.: 200-578-6 Registration number: 01-2119457610-43-XXXX	ethanol, ethyl alcohol	10 - ≤15%	Eye Irrit. 2, H319 - Flam. Liq. 2, H225	-
Index No.: 607-750-00-3 CAS NO: 77-92-9 CE No.: 201-069-1 Registration number: 01-2119457026-42-XXXX	Citric acid	1 - ≤10%	Eye Irrit. 2, H319 - STOT SE 3, H335	-
Index No.: 603-117-00-0 CAS NO: 67-63-0 CE No.: 200-661-7 Registration number: 01-2119457558-25-XXXX	propan-2-ol, isopropyl alcohol, isopropanol	1 - ≤10%	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
CAS NO: 149-91-7 EC No.: 205-749-9	3,4,5-trihydroxybenzoic acid	1 - ≤5%	Eye Irrit. 2, H319 - STOT SE 3, H335 - Skin irritation 2, H315	-

Index No.: 015-011-00-6 CAS No.: 7664-38-2 EC No.: 231-633-2 Registration number: 01-2119485924-24-XXXX	[1] Phosphoric acid, orthophosphoric acid	1 - ≤3%	Skin Corr. 1B, H314	Skin Corr. 1B, H314: C ≥ 25 % Skin irritation 2, H315: 10% ≤ C < 25%  Eye Irrit. 2, H319: 10% ≤ C < 25%
Index No.: 029-004-00-0 CAS NO: 7758-98-7 CE No.: 231-847-6 Registration number: 01-2119520566-40-XXXX	copper sulphate	0.25 - <1.5%	Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Eye Irritative 2, H319 - Skin irritation 2, H315	-

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

Consult Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with European Union exposure limit in the workplace (see section 8.1).

## SECTION 4: FIRST AID.

The information on the updated composition of the product has been sent to the Toxicological Information Service (Institute National Institute of Toxicology and Forensic Sciences). In case of poisoning, call the Toxicological Information Service: Phone (24 hours) 91 562 04 20

### 4.1 Description of first aid.

In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never administer anything orally to people who are unconscious.

#### Inhalation.

Place the injured person in the open air, keep him warm and at rest, if breathing is irregular or stops, practice artificial respiration.

#### Eye contact.

Remove contact lenses, if present and easy to do. Flush eyes thoroughly with clean, cool water for at least 10 minutes, pulling up the eyelids, and seek medical attention. Do not let the person rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with soap and water or a suitable skin cleanser. NEVER use solvents or thinners.

#### Ingestion.

If accidentally swallowed, seek immediate medical attention. Keep him at rest. NEVER induce vomiting.

### 4.2 Main symptoms and effects, acute and delayed.

Irritant product, repeated or prolonged contact with the skin or mucous membranes may cause redness, blisters or dermatitis, inhalation of spray mist or suspended particles may cause irritation of the respiratory tract, some of the symptoms may not be immediate.

**4.3 Indication of any medical attention and special treatments that must be provided immediately.** In cases of doubt, or when symptoms of discomfort persist, seek medical attention. Never administer anything orally to people who are unconscious. Cover the affected area with a dry sterile dressing. Protect the affected area from pressure or friction.

## **SECTION 5: FIRE FIGHTING MEASURES.**

The product does not present any particular risk in the event of fire.

### **5.1 Extinguishing media.**

#### **Appropriate extinguishing media:**

Fire extinguishing 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 direct water jet for extinguishing. In the presence of electrical voltage, it is not acceptable to use water or foam as an extinguishing medium.

### **5.2 Specific hazards arising from the substance or mixture.**

#### **Special risks.**

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

### **5.3 Recommendations for firefighting personnel.**

Cool tanks, cisterns or containers close to the heat or fire source with water. Consider the direction of the wind. Prevent products used in firefighting from entering drains, sewers or water courses. Remains of product and extinguishing media can contaminate the aquatic environment.

#### **Fire protection equipment.**

Depending on the magnitude of the fire, the use of heat protection suits, self-contained breathing apparatus, gloves, protective glasses or face masks, and boots may be necessary.

## **SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE.**

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

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

### **6.2 Environmental precautions.**

Dangerous product for the environment, in case of large spills or if the product contaminates lakes, rivers or sewers, inform the competent authorities, according to local legislation. Avoid contamination of drains, surface or groundwater, as well as soil.

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

Contain and collect the spill with inert absorbent material (soil, sand, vermiculite, diatomaceous earth...) and clean the area immediately with an appropriate decontaminant.

Deposit waste in closed containers suitable for disposal, in accordance 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 waste disposal, follow the recommendations in section 13.

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

### **7.1 Precautions for safe handling.**

For personal protection, see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Comply with legislation on safety and hygiene at work.

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

### **7.2 Conditions for safe storage, including possible incompatibilities.**

Store according to local legislation. Observe the indications of the tag. Store containers between 5 and 25 °C, in a dry and well-ventilated place, away from heat sources and direct sunlight. Keep away from ignition points. Keep away from oxidizing agents and strongly acidic or alkaline materials. No Smoking. Send the invite to unauthorized people. Once the containers have been opened, they must be carefully resealed and placed vertically to avoid spills.

### 7.3 Specific end uses.

Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

Exposure limit during work for:

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
ethanol, ethyl alcohol	64-17-5	Spain [1]	<b>Eight hours</b>		
			<b>Short term</b>	1000	1910
propan-2-ol, isopropyl alcohol, isopropanol	67-63-0	Spain [1]	<b>Eight hours</b>	200	500
			<b>Short term</b>	400	1000
Phosphoric acid, orthophosphoric acid	7664-38-2	Spain [1]	<b>Eight hours</b>		1
			<b>Short term</b>		2
		European Union [2]	<b>Eight hours</b>		1
			<b>Short term</b>		2

Biological exposure limit values for:

Name	CAS No.	Country	Indicator biological	VLB	Moment of sampling
propan-2-ol, isopropyl alcohol, isopropanol	67-63-0	Spain [1]	Acetone in urine	40 mg/l	End of the week labor

[1] According to the list of Environmental Limit Values for Professional Exposure adopted by the National Institute of Safety and Health at Work (INSST) for the year 2022.

[2] According to both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

DNEL/DMEL concentration levels:

Name	DNEL/DMEL	Guy	Worth
ethanol, ethyl alcohol CAS NO: 64-17-5 CE No.: 200-578-6	DNEL (Workers)	Inhalation, Chronic, Systemic effects	950 (mg/m <sup>3</sup> )
propan-2-ol, isopropyl alcohol, isopropanol CAS NO: 67-63-0 CE No.: 200-661-7	DNEL (Workers)	Inhalation, Chronic, Systemic effects	500 (mg/m <sup>3</sup> )
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	89 (mg/m <sup>3</sup> )
	DNEL (Workers)	Cutaneous, Chronic, Systemic effects	888 (mg/kg bw/day)
	DNEL (Consumers)	Cutaneous, Chronic, Systemic effects	319 (mg/kg bw/day)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	26 (mg/kg bw/day)
Phosphoric acid, orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	DNEL (Workers)	Inhalation, Chronic, Local effects	1 (mg/m <sup>3</sup> )
	DNEL (Consumers)	Inhalation, Chronic, Local effects	0.73 (mg/m <sup>3</sup> )

	DNEL (Workers)	Inhalation, Short term, Local effects	2 (mg/m <sup>3</sup> )
--	-------------------	---------------------------------------	------------------------

DNEL: Derived No Effect Level, level of exposure to the substance below which no adverse effects are expected.

DMEL: Derived Minimal Effect Level, exposure level that corresponds to a low risk, which should be considered a minimum tolerable risk.

PNEC concentration levels:

Name	Details	Worth
ethanol, ethyl alcohol CAS NO: 64-17-5 CE No.: 200-578-6	Sweet water	0.96 (mg/L)
	sea water	0.79 (mg/L)
	water (intermittent releases)	2.75 (mg/L)
	Floor	0.63 (mg/kg soil dw)
	sediment (fresh water)	3.6 (mg/kg sediment dw)
propan-2-ol, isopropyl alcohol, isopropanol CAS NO: 67-63-0 CE No.: 200-661-7	water (fresh water)	140.9 (mg/L)
	water (sea water)	140.9 (mg/L)
	water (intermittent releases)	140.9 (mg/L)
	sediment (fresh water)	552 (mg/kg sediment dw)
	sediment (seawater)	552 (mg/kg sediment dw)
	Floor	28 (mg/kg soil dw)
	Residual water treatment plant oral (danger to predators)	2251 (mg/L) 160 (mg/kg food)
copper sulphate CAS NO: 7758-98-7 CE No.: 231-847-6	water (fresh water)	7.8 (µg/L)
	water (sea water)	5.2 (µg/L)
	Residual water treatment plant	230 (µg/L)
	sediment (fresh water)	87 (mg/kg sediment dw)
	sediment (seawater)	676 (mg/kg sediment dw)
	floor	65 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which no negative effects on environmental performance are expected.



## 8.2 Exposure controls.

### Technical measures:

Provide adequate ventilation, which can be achieved through good local extraction-ventilation and a good general extraction system.

<b>Concentration:</b>	<b>100%</b>
<b>Applications:</b>	<b>Liquid for application on surfaces with ferric oxide.</b>
<b>Respiratory protection:</b>	
If the recommended technical measures are followed, no personal protective equipment is necessary.	
<b>Hand protection:</b>	
PPE:	Chemical protection gloves
Characteristics:	«CE» Category III marking.
CEN standards:	EN 374-1, EN 374-2, EN 374-3, EN 420



Maintenance:	They will be stored in a dry place, away from possible heat sources, and exposure to sunlight will be avoided as much as possible. No modifications will be made to the gloves that could alter their resistance, nor will paints, solvents or adhesives be applied.				
Observations:	Gloves should be the correct size, fitting your hand without being too loose or too tight. They should always be used with clean and dry hands.				
Material:	PVC (Chloride polyvinyl)	Time of penetration (min.):	> 480	Thickness of material (mm):	0.35
<b>Eye protection:</b>					
PPE:	Protective glasses with integral frame				
Characteristics:	«CE» Category II marking. Full-frame eye guard for protection against liquid splashes, dust, fumes, mists and vapors.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through the eyepieces must be optimal, for which these elements must be cleaned thoroughly. daily, protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Indicators of deterioration may be: yellowing of the eyepieces, superficial scratches on the eyepieces, tears, etc.				
<b>Skin care:</b>					
PPE:	Chemical protective clothing				
Characteristics:	«CE» Category III marking. Clothing should have a good fit. You must set the protection level based on a test parameter called "Delay Time step" (BT. Breakthrough Time) which indicates the time that the chemical product takes time 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:	The washing and conservation instructions provided by the manufacturer must be followed to guarantees constant protection.				
Observations:	The design of the protective clothing should facilitate its correct positioning and its permanence without displacement, during the period of intended use, taking into account environmental factors, together with the movements and postures that the user may adopt during their activity.				
PPE:	Work shoes				
Characteristics:	«CE» Category II marking.				
CEN standards:	EN ISO 13287, EN 20347				
Maintenance:	These items adapt to the shape of the foot of the first user. For this reason, as well as for Hygiene issues, reuse by another person should be avoided.				
Observations:	Work footwear for professional use is that which incorporates protective elements intended for protect the user from injuries that could cause accidents, work must be reviewed to which this footwear is suitable for.				



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

Physical state: Liquid

Brown color

Odor: Mild alcohol-like odor

Odor 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 nature/properties of the product.

Boiling Point/Initial Point/Range: Not applicable/Not available due to nature/properties of the product.

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

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: >60 °C

Autoignition 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: 2.10 (100%)

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

Solubility: 100%

Water solubility: 100%

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.  
 Vapor Pressure: Not applicable/Not available due to nature/properties of the product.  
 Absolute density: 976 kg/m<sup>3</sup>  
 Relative density: Not applicable/Not available due to the nature/properties of the product.  
 Vapor 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 data.

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 dangers due to its reactivity.

### 10.2 Chemical stability.

Unstable in contact with:

- Bases.

### 10.3 Possibility of hazardous reactions.

Neutralization may occur in contact with bases.

### 10.4 Conditions to avoid.

- Avoid contact with bases.

### 10.5 Incompatible materials.

Avoid the following materials:

- Bases.

### 10.6 Hazardous decomposition products.

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

- Corrosive vapors or gases.

## SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Splashes in the eyes may cause eye irritation.

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

Repeated or prolonged contact with the product may cause the removal of oil from the skin, leading to non-allergic contact dermatitis and the product being absorbed through the skin.

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

Name	Acute toxicity			
	Guy	Rehear sal	Species	Worth
propan-2-ol, isopropyl alcohol, isopropanol  CAS NO: 67-63-0      CE No.: 200-661-7	Oral	LD50	Rat	5050 mg/kg bw [1] [1] Gigena i Sanitariya. For English translation, see HYSAAV. Vol. 43(1), Pg. 8, 1978
	Cutaneous	LD50	Rabbit	12800 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Page 100, 1974
	Inhalation	LC50	Rat	>10000 ppm (6 hours) [1] [1] OECD Guideline 403 (Acute Inhalation Toxicity), study report, 1991
Phosphoric acid, orthophosphoric acid	Oral	LD50	Rat	1530 mg/kg bw [1]



CAS No.: 7664-38-2      EC No.: 231-633-2		[1] BIOFAX IndustrialBio-Test Laboratories, Inc., Data Sheets. Vol. 17-4/1970
	Cutaneous	LD50      Rabbit      2740 mg/kg bw [1] [1] BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. Vol. 17-4/1970
	Inhalation	LC50      mouse      25.5 mg/m <sup>3</sup> air [1] [1] Toxicological Characteristics of Phosphoric Acid and Some of Its Chromium Salts Used as Binding Agents in the Production of Refractory Materials, 1983.
copper sulphate  CAS NO: 7758-98-7      CE No.: 231-847-6	Oral	LD50      Rat      300 mg/kg bw [1] [1] Agricultural Chemicals, Thomson, WT, 4 vols., Fresno, CA, Thomson Publications, 1976/77 revisionVol. 2, Page 182, 1977
	Cutaneous	LD50      Rat      2000 mg/kg [1] [1] Nippon Noyaku Gakkaishi. Journal of the Pesticide Science Society of Japan. Vol. 18, Page S161, 1993.
	Inhalation	

a) acute toxicity;

Inconclusive data for classification.

b) skin corrosion or irritation.

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

c) serious eye injury or eye irritation;

Classified product:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitization;

Inconclusive data for classification.

e) mutagenicity in germ cells; Inconclusive  
data for classification.

f) carcinogenicity;

Inconclusive data for classification.

g) reproductive toxicity;

Inconclusive data for classification.

h) specific target organ toxicity (STOT) - single exposure; Based on available data, the classification criteria are not met.

i) specific target organ toxicity (STOT) - repeated exposure; Inconclusive data for classification.

j) aspiration hazard;

Inconclusive data for classification.

## 11.2 Information regarding other hazards.

### Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties with effects on human health.

### Other data.

There is no information available on other adverse health effects.

## SECTION 12: ECOLOGICAL INFORMATION.

### 12.1 Toxicity.

Name	Ecotoxicity			
	Guy	Rehear sal	Species	Worth
ethanol, ethyl alcohol	Fish	LC50	Fish	11000 mg/l (96 h) [1]
		[1] Bengtsson, B.E., L. Renberg, and M. Tarkpea 1984. Molecular Structure and Aquatic Toxicity - an Example with C1-C13 Aliphatic Alcohols. Chemosphere 13(5/6):613-622		
	Invertebrates aquatic	NOAEC	Crustacean	10 mg/l (28 d) [1]
		EC50	Crustacean	9950 mg/l (48 h) [2]
LC50		Ceriodaphnia dubia	5012 mg/l (48 h) [3]	
NOAEC		Crustacean	10 mg/l (28 d) [4]	
	[1] OECD 204			
	[2] Barera, Y., and WJ Adams 1983. Resolving Some Practical Questions About Daphnia Acute Toxicity Tests. In: WEBishop (Ed.), Aquatic Toxicology and Hazard Assessment, 6th Symposium, ASTM STP 802, Philadelphia, PA:509-518. Rossini, GDB, and AE Ronco 1996. Acute Toxicity Bioassay Using Daphnia obtusa as a Test Organism. Environ.Toxicol.Water Qual. 11(3):255-258			
	[3] Takahashi, IT, UM Cowgill, and PG Murphy 1987. Comparison of Ethanol Toxicity to Daphnia magna and Ceriodaphnia dubia Tested at Two Different Temperatures: Static Acute Toxicity Test Results. Bull.Environ.Contam.Toxicol. 39(2):229-236. Ziegenfuss, PS, WJ Renaudette, and WJ Adams 1986. Methodology for Assessing the Acute Toxicity of Chemicals Sorbed to Sediments: Testing the Equilibrium Partitioning Theory. In: TM Poston and R. Purdy (Eds.), Aquatic Toxicology and Environmental Fate, 9th Volume, ASTM STP 921, Philadelphia, PA:479-493			
	[4] OECD 204			
CAS NO: 64-17-5      CE No.: 200-578-6	Floors aquatic			
propan-2-ol, isopropyl alcohol, isopropanol	Fish	LC50	Fish	9640 mg/l (96 h) [1]
		[1] Brooke, L.T., DJ Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414		
	Invertebrates aquatic	LC50	Crustacean	1400 mg/l (48 h) [1]
		[1] Blackman, RAA 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118		
CAS NO: 67-63-0      CE No.: 200-661-7	Floors aquatic	Toxicity threshold	Scenedesmus quadricauda	1800 mg/L (7 d) [1]
		[1] Comparison of the Toxicity Thresholds of Water Pollutants to Bacteria, Algae, and Protozoa in the Cell Multiplication Inhibition Test, Water Research Vol. 14. pp. 231 to 241		
Phosphoric acid, orthophosphoric acid	Fish	LC50	Oryzias latipes	75.1 mg/L (96 h) [1]

		[1] summary of study report, 2005		
CAS No.: 7664-38-2      EC No.: 231-633-2	Invertebrates aquatic	EC50	Daphnia magna	>100 mg/L (48 h) [1]
		[1] study report, 2010		
	Floors aquatic	EC50	Desmodesmus subspicatus	>100 mg/L (72 h) [1]
		[1] study report, 2010		
copper sulphate	Fish	LC50	Fish	0.31 mg/l (96 h) [1]
		LC50	Fish	0.89 mg/l (96 h) [2]
	Fish	[1] Erickson, RJ, DA Benoit, VR Mattson, HP Nelson Jr., and EN Leonard 1996. The Effects of Water Chemistry on the Toxicity of Copper to Fathead Minnows. Environ.Toxicol.Chem. 15(2):181-193. Yang, H.N., and H.C. Chen 1996. The Influence of Temperature on the Acute Toxicity and Sublethal Effects of Copper, Cadmium and Zinc to Japanese Eel, Anguilla japonica. Zool.Taiwanica Act 7(1):29-		
		[2] Soucek, DJ, and GP Noblet 1998. Copper Toxicity to the Endoparasitic Trematode (Posthodiplostomum minimum) Relative to Physid Snail and Bluegill Sunfish Intermediate Hosts. Environ.Toxicol.Chem. 17(12):2512-2516		
	Invertebrates aquatic	LC50	Crustacea n	0.07 mg/l (48 h) [1]
		EC50	Crustacea n	0.06 mg/l (48 h) [2]
	Invertebrates aquatic	[1] Cairns, J., ALJr Buikema, AG Heath, and BC Parker 1978. Effects of Temperature on Aquatic Organism Sensitivity to Selected Chemicals. Va.Water Resour.Res.Center, Bull.106, Office of Water Res.and Technol., OWRT Project B-084-VA, VA.Polytech.Inst.State Univ., Blacksburg, VA :1-88		
		[2] Lalande, M., and B. Pinel-Alloul 1984. Heavy Metals Toxicity on Planktonic Crustacea of the Quebec Lakes (Toxicite des Metaux Lourds sur les Crustaces Planctoniques des Lacs du Quebec). Sci.Tech.Eau 17(3):253-259 (FRE) (ENG ABS)		
CAS NO: 7758-98-7      CE No.: 231-847-6	Floors aquatic	EC50	Alga	0.07 mg/l (72 h) [1]
		EC50	Alga	0.05 mg/l (96 h) [2]
	Floors aquatic	[1] Vasseur, P., P. Pandard, and D. Burnel 1988. Influence of Some Experimental Factors on Metal Toxicity to Selenastrum capricornutum. Toxic.Assess. 3(3):331-444. Schafer, H., A. Wenzel, U. Fritsche, G. Roderer, and W. Traunspurger 1993. Long-Term Effects of Selected Xenobiotica on Freshwater Green Algae: Development of a Flow-Through Test System. Sci.Total Environ. Suppl.:735-740		
		[2] Blaise, C., R. Legault, N. Bermingham, R. Van Coillie, and P. Vasseur 1986. A Simple Microplate Algal Assay Technique for Aquatic Toxicity Assessment. Toxic.Assess. 1:261-281		

## 12.2 Persistence and degradability.

There is no information available regarding the biodegradability of the substances present.

There is no information available regarding the degradability of the substances present.

There is no information available on the persistence and degradability of the product.

## 12.3 Bioaccumulative potential.

Information on the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Kow	BCF	NOECs	Level
ethanol, ethyl alcohol CAS NO: 64-17-5 CE No.: 200-578-6	-0.3	-	-	Very low
propan-2-ol, isopropyl alcohol, isopropanol CAS NO: 67-63-0 CE No.: 200-661-7	0.05	-	-	Very low
3,4,5-trihydroxybenzoic acid CAS NO: 149-91-7 EC No.: 205-749-9	0.7	-	-	Very low

#### 12.4 Mobility on the ground.

There is no information available on mobility on the ground.  
The product should not be allowed to enter sewers or water courses.  
Avoid penetration into the ground.

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

There is no information available on the PBT and vPvB rating of the product.

#### 12.6 Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties on the environment.

#### 12.7 Other adverse effects.

There is no information available on other adverse effects on the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS.

#### 13.1 Methods for waste treatment.

It is not allowed to be discharged into sewers or water courses. Waste and empty containers must be handled and disposed of in accordance with current local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

### SECTION 14: INFORMATION RELATING TO TRANSPORTATION.

It is not dangerous in transport. In case of accident and spillage of the product, act according to point 6.

#### 14.1 UN number or ID number.

It is not dangerous in transport.

**14.2 Proper shipping name of the United Nations.**

Description:

ADR/RID: Not dangerous in transport.

IMDG: Not dangerous in transportation.

ICAO/IATA: It is not dangerous in transport.

**14.3 Transport hazard class(es).**

It is not dangerous in transport.

**14.4 Packing group.**

It is not dangerous in transport.

**14.5 Environmental hazards.**

It is not dangerous in transport.

Transport by ship, FEm - Emergency sheets (F – Fire, S – Spills): Not applicable.

**14.6 Special precautions for users.**

It is not dangerous in transport.

**14.7 Sea transport in bulk according to IMO instruments.**

It is not dangerous in transport.

**SECTION 15: REGULATORY INFORMATION.**

**15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture.**

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

The product is not affected by Regulation (EU) No 528/2012 regarding the marketing and use of biocides.

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

**15.2 Chemical safety assessment.**

A chemical safety assessment of the product has not been carried out.

**SECTION 16: OTHER INFORMATION.**

Full text of the H-phrases that appear in section 3:

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and serious eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	It can irritate the respiratory tract.
H336	May cause drowsiness or dizziness.
H400	Very toxic for aquatic organisms.
H410	Very toxic to aquatic organisms, with long-lasting harmful effects.

Classification codes:

Acute Tox. 4: Acute oral toxicity, Category 4  
Aquatic Acute 1: Acute toxicity to the aquatic environment, Category 1  
Aquatic Chronic 1 : Chronic effects to the aquatic environment, Category 1  
Aquatic Chronic 3 : Chronic effects to the aquatic environment, Category 3  
Eye Irrit. 2: Eye irritation, Category 2  
Flam. Liq. 2: Flammable liquid, Category 2  
STOT SE 3: Target organ toxicity after single exposure, Category 3  
Skin Corr. 1B: Skin corrosive, Category 1B  
Skin irritation 2: Skin irritant, Category 2

Modifications compared to the previous version:

- Added personal protective equipment (SECTION 8.2).
- Modifications to personal protective equipment (SECTION 8.2).

**Classification and procedure used to determine the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]:**

Physical hazards	According to data obtained from the tests
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training regarding occupational safety and hygiene to carry out correct handling of the product.

Abbreviations and acronyms used:

BCF: Bioconcentration factor.  
CEN: European Committee for Standardization.  
DMEL: Derived Minimum Effect Level, exposure level that corresponds to a low risk, which must be considered a minimal tolerable risk.  
DNEL: Derived No Effect Level, level of exposure to the substance below which no adverse effects are expected.  
EC50: Average effective concentration.  
PPE: Personal protection equipment.  
LC50: Lethal Concentration, 50%.  
LD50: Lethal Dose, 50%.  
NOEC: Concentration without observed effect.  
PNEC: Predicted No Effect Concentration  
substance below which no negative effects on environmental performance are expected.

Main bibliographical references and data sources:

<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 provided in this Safety Data Sheet has been prepared 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, concerning the registration, evaluation, authorization and restriction of chemical substances and mixtures (REACH).

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, as the working conditions of users are beyond our knowledge and control. The product should not be used for purposes other than those specified, without first having written instructions on its handling. It is always the user's responsibility to take the appropriate measures in order to comply with the requirements established in the legislation.