



RUST REMOVER
Code: 11.01



Version: 7 Revision: 27/11/2020

Previous revision: 18/10/2018

Date of printing: 27/11/2020

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

1.1	<p>PRODUCT IDENTIFIER: RUST REMOVER EC: 231-633-2 Code: 11.01 REACH REGISTER: Register name: Orthophosphoric acid 21% Register number: 01-2119485924-24</p>
1.2	<p>RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: [X] Industrial [X] Professional [X] Consumers</p> <p><u>Intended uses (main technical functions):</u> Produto para remoção da ferrugem superficial do ferro.</p> <p><u>Sectors of use (use as such or as a ingredient in mixtures):</u> <ul style="list-style-type: none"> # Agriculture, forestry, fishery (SU1), industrial, professional. # Industrial manufacturing (SU3), industrial. # Manufacture of bulk, large scale chemicals (SU8), industrial. # Formulation (mixing) of preparations and/or re-packaging (SU10), industrial, professional. # Manufacture of other non-metallic mineral products (SU13), industrial, professional. # Manufacture of basic metals, including alloys (SU14), industrial, professional. # Manufacture of fabricated metal products (SU15), industrial, professional. # Manufacture of computer, electronic and optical products, electrical equipment (SU16), industrial, professional. # General manufacturing (SU17), industrial, professional. # Consumer uses (SU21), consumers. # Professional uses (SU22), professional. # Scientific research and development (SU24), industrial, professional. </p> <p><u>Use in manufacture, formulation or application processes (relevant uses):</u> <ul style="list-style-type: none"> # Formulation of mixtures and/or re-packaging, industrial. # Use as an intermediate in the production of chemicals, industrial. # Welding and soldering products, professional, consumers. # Use in polishes and wax blends, consumers. # Use in cleaning agents, industrial, professional, consumers. # Use in metal surface treatment products, industrial, professional. # Use in non-metal surface treatment products, industrial. # Use in fertilizers, industrial, professional, consumers. # Use in electrical batteries and accumulators, consumers. # Use in roads and construction, professional. # Drinks and food additive, consumers. # Use in laboratory, professional. </p> <p><u>Use in products (relevant product categories):</u> <ul style="list-style-type: none"> # Adhesives, sealants (PC1). Base metals and alloys (PC7). Coatings and paints, thinners, paint removers (PC9a). Fillers, putties, plasters, modelling clay (PC9b). Fertilizers (PC12). Fuels (PC13). Metal surface treatment products (PC14). Non-metal surface treatment products (PC15). Intermediate (PC19). Products such as pH-regulators, flocculants, precipitants, neutralization agents (PC20). Laboratory chemicals (PC21). Leather tanning, dye, finishing, impregnation, leather care products (PC23). Lubricants, greases, release products (PC24). Metal-working fluids (PC25). Paper and board dye, finishing and impregnation products (PC26). Perfumes, fragrances (PC28). Polishes and wax blends (PC31). Polymer preparations and compounds (PC32). Semiconductors (PC33). Textile dyes, finishing and impregnating products (PC34). Washing and cleaning products (PC35). Water treatment chemicals (PC37). Welding and soldering products (PC38). </p> <p><u>Uses advised against:</u> <ul style="list-style-type: none"> # This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'. </p> <p><u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> <ul style="list-style-type: none"> # Not restricted. </p>
1.3	<p>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: NEUCE - Indústria de Tintas, S.A. Rua Francisco Rocha - Aptdo. 4514 - 3700-892 - Romariz SJM (Portugal) Phone: +351 256 840040 - Fax: +351 256 840049 <u>E-mail address of the person responsible for the Safety Data Sheet:</u> e-mail: geral@neuce.pt</p>
1.4	<p>EMERGENCY TELEPHONE NUMBER: +351 256 840041 (9:00-18:30 h.) (working hours)</p>



RUST REMOVER
Code: 11.01



SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification in accordance with Regulation (EU) No. 1272/2008~2020/217 (CLP):

WARNING: Met. Corr. 1:H290 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319

Danger class	Classification of the substance	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: 	Met. Corr. 1:H290 Skin Irrit. 2:H315 Eye Irrit. 2:H319	Cat.1 Cat.2 Cat.2	- Skin Eyes	- Skin Eyes	- Irritation Irritation
Human health: 					
Environment: Not classified					

Full text of hazard statements mentioned is indicated in section 16.

2.2 LABEL ELEMENTS:



This product is labelled with the signal word WARNING in accordance with Regulation (EU) No. 1272/2008~2020/217 (CLP)

Hazard statements:

H290

H319

H315

May be corrosive to metals.
Causes serious eye irritation.
Causes skin irritation.

Precautionary statements:

P102

P337+P313

P280C

P303+P361+P353-P352-P312

P305+P351+P338-P310

Keep out of reach of children.
If eye irritation persists: Get medical attention.
Wear protective gloves, clothing and eye protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Store in a corrosion resistant container with a resistant inner liner.

P406

Supplementary statements:

None.

Substances that contribute to classification:

None in a percentage equal to or higher than the limit for the name.

2.3 OTHER HAZARDS:

Hazards which do not result in classification but which may contribute to the overall hazards of the substance:

Other physicochemical hazards: # No other relevant adverse effects are known.

Other adverse human health effects: # No other relevant adverse effects are known.

Other negative environmental effects: # Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

This product is a substance in aqueous solution.

Chemical description:

Solution of orthophosphoric acid in aqueous media.

INGREDIENTS:

~ 79. %

Water

CAS: 7732-18-5 , EC: 231-791-2

REACH: Exempt (annex IV)

Not classified

~ 21. %

Orthophosphoric acid

CAS: 7664-38-2 , EC: 231-633-2

CLP: Danger: Met. Corr. 1:H290 | Skin Corr. 1B:H314

REACH: 01-2119485924-24

Index No. 015-011-00-6
(Note B) < REACH

Impurities:

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

None

Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 25/06/2020.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None



RUST REMOVER
Code: 11.01



PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
Does not contain substances that fulfil the PBT/vPvB criteria.

3.2 **MIXTURES:**
Not applicable.

SECTION 4 : FIRST AID MEASURES

4.1 **DESCRIPTION OF FIRST-AID MEASURES:**



In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	# Inhalation produces coughing with soreness in the throat and respiratory tract. Inhalation may result in pulmonary oedema. Symptoms of pulmonary oedema may not often be apparent until after several hours and become worse after physical effort.	# Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin: 	# Skin contact causes redness, pain and blisters.	# Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and a solution of 5% sodium bicarbonate. Finally, rewash the affected area with soap and water.
Eyes: 	# Contact with the eyes produces redness, pain and serious burns. Contact with the eyes produces redness, pain, serious burns and loss of vision.	# Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately. If the eyes are not treated immediately, damage to sight may be permanent.
Ingestion:	# If swallowed, may cause abdominal cramps, burning sensation and weakness.	# If swallowed, seek immediate medical attention. Due to its acid condition, the effects can be reduced to a minimum by drinking plenty of water, to which milk of magnesia has been added. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.2 **MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**
The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

Notes to physician: # Specific treatment is necessary in case of exposition with this product: the appropriate means with instructions must be available. Treatment should be directed at the control of symptoms and the clinical condition of the patient. If inhaled should be considered the immediate administration of a suitable spray by a doctor or a person authorized by him.
Antidotes and contraindications: # Not available.

SECTION 5 : FIRE-FIGHTING MEASURES

Not combustible.

5.1 **EXTINGUISHING MEDIA:**
In case of fire in the surroundings, all extinguishing agents are allowed.

5.2 **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**
Not applicable.

5.3 **ADVICE FOR FIREFIGHTERS:**
Special protective equipment: # Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: # Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**
Avoid direct contact with this product.

6.2 **ENVIRONMENTAL PRECAUTIONS:**
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**
Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Transfer to a suitable container for recovery or elimination. Neutralize with carbonate or sodium bicarbonate. Keep the remains in a closed container. Finally, clean up the area with plenty of water.



RUST REMOVER
Code: 11.01



6.4

REFERENCE TO OTHER SECTIONS:

For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal 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:

Comply with the existing legislation on health and safety at work.

General recommendations:

Avoid any type of leakage or escape. Keep the container tightly closed.

Recommendations for the prevention of fire and explosion risks:

The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 2014/34/EU concerning equipment and protective systems intended for use in potentially explosive atmospheres.

Recommendations for the prevention of toxicological risks:

Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.

Recommendations for the prevention of environmental contamination:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Forbid the entry to unauthorized persons. Keep out of reach of children. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of storage

: # According to current legislation.

Maximum storage period

: # 24. months

Temperature interval

: # min: 5. °C, max: 35. °C (recommended).

Incompatible materials:

Keep away from alkalis, amines, alcohols, ketones, metals.

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): # Directive 2012/18/EU:

Not applicable (the classification criteria are not met).

7.3

SPECIFIC END USES:

For the use of this product particular recommendations apart from that already indicated are not available.


 RUST REMOVER
 Code: 11.01


SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2019	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m ³	ppm	mg/m ³	
Orthophosphoric acid	1976	-	1.0	-	3.0	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Oral	
	mg/m ³		mg/kg bw/d		mg/kg bw/d	
Water	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Orthophosphoric acid	- (a)	10.7 (c)	- (a)	- (c)	- (a)	- (c)
Derived no-effect level, workers: - Local effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Eyes	
	mg/m ³		mg/cm ²		mg/cm ²	
Water	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Orthophosphoric acid	2.00 (a)	1.00 (c)	m/r (a)	m/r (c)	m/r (a)	- (c)
Derived no-effect level, general population: - Systemic effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Oral	
	mg/m ³		mg/kg bw/d		mg/kg bw/d	
Water	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Orthophosphoric acid	- (a)	4.57 (c)	- (a)	- (c)	b/r (a)	0.100 (c)
Derived no-effect level, general population: - Local effects, acute and chronic:	DNEL Inhalation		DNEL Cutaneous		DNEL Eyes	
	mg/m ³		mg/cm ²		mg/cm ²	
Water	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Orthophosphoric acid	m/r (a)	0.360 (c)	m/r (a)	m/r (c)	m/r (a)	- (c)

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.

(-) - DNEL not available (without data of registration REACH).

b/r - DNEL not derived (low hazard).

m/r - DNEL not derived (medium hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release:	PNEC Fresh water		PNEC Marine		PNEC Intermittent	
	mg/l		mg/l		mg/l	
Water	-	-	-	-	-	-
Orthophosphoric acid	s/r		s/r		s/r	
- Wastewater treatment plants (STP) and sediments in fresh- and marine water:	PNEC STP		PNEC Sediments		PNEC Sediments	
	mg/l		mg/kg dw/d		mg/kg dw/d	
Water	-	-	-	-	-	-
Orthophosphoric acid	s/r		s/r		s/r	
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans:	PNEC Air		PNEC Soil		PNEC Oral	
	mg/m ³		mg/kg dw/d		mg/kg dw/d	
Water	-	-	-	-	-	-
Orthophosphoric acid	s/r		s/r		n/b	

(-) - PNEC not available (without data of registration REACH).

s/r - PNEC not derived (not identified hazard).

n/b - PNEC not derived (not bioaccumulative potential).



RUST REMOVER
Code: 11.01



8.2

EXPOSURE CONTROLS:**ENGINEERING MEASURES:**

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: # Avoid the inhalation of product.

Protection of eyes and face: # It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area.

Protection of hands and skin: # It is recommended to install emergency showers close to the working area.

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

E-type filter mask (yellow) for acidic gases and vapours (EN14387). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.

Safety goggles:

Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:

Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. If used in solution or mixed with other substances, or under conditions different from the EN374, please contact the supplier of the approved gloves. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.

Boots:

No.

Apron:

No.

Clothing:

Advisable.

Thermal hazards:

Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: # Prevent contamination of soil.

Spills in water: # Because of its acidity, it is dangerous to aquatic organisms. Do not allow to escape into drains, sewers or water courses.

- **Water Management Act:** # This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: # Not applicable.



RUST REMOVER
Code: 11.01



SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : # Liquid.
- Colour : # Colourless.
- Odour : # Acidic.
- Odour threshold : # Not applicable

pH-value

- pH : # Acide

Change of state

- Initial boiling point : # Not applicable

Density

- Vapour density : # < 1 (lighter than air).
- Relative density : # 1. ± 0.1 # at 20/4°C Relative water

Stability

- Decomposition temperature : # 250 # °C

Viscosity:

- Dynamic viscosity : # 40. cps 20°C
- Kinematic viscosity : # 14. mm²/s at 40°C
- Viscosity (flow time) : # 15. ± 2. # sec.FCA 20°C

Volatility:

- Evaporation rate : # 40.5 nBuAc=100 25°C Relative
- Vapour pressure : # 17.5 # mmHg at 20°C
- Vapour pressure : # 12.3 kPa at 50°C

Solubility(ies)

- Solubility in water : # Not applicable
- Liposolubility : # Not applicable (inorganic substance).

Flammability:

- Flash point : # Not combustible.
- Upper/lower flammability or explosive limits : # Not applicable
- Autoignition temperature : # Not applicable (not combustible).

Explosive properties:

In the molecule there is no chemical groups associated with explosive properties.

Oxidizing properties:

Not classified as oxidizing product.

9.2 OTHER INFORMATION:

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:

Corrosivity to metals: # May be corrosive to metals.
Pyrophorical properties: # It is not pyrophoric.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with water, alkalis, amines, alcohols, ketones, metals. In contact with metals, produces hydrogen gas which is extremely inflammable and produces explosive mixtures when in contact with air. Never pour water over this substance; when it has to be dissolved or diluted, add the water slowly.

10.4 CONDITIONS TO AVOID:

Heat: # Keep away from sources of heat.
Light: # Not applicable.
Air: # The product is not affected by exposure to air, but should not be left the containers open.
Pressure: # Not relevant.
Shock: # The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

10.5 INCOMPATIBLE MATERIALS:

Keep away from alkalis, amines, alcohols, ketones, metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced: phosphorus oxides. No product of decomposition is dangerous if stored and handled properly.



RUST REMOVER
Code: 11.01



SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:Dose and lethal concentrations :

Orthophosphoric acid

LD50 (OECD 401)
mg/kg bw oral
2600. Rat

LD50 (OECD 402)
mg/kg bw cutaneous
2740. Rabbit

LC50 (OECD 403)
mg/m³ 4h inhalation

Estimates of acute toxicity (ATE) :

Not classified as a product with acute toxicity.

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
<u>Inhalation:</u> Not classified	ATE > 2000 mg/m ³	-	# Not classified as a product with acute toxicity if inhaled (lack of data).	GHS/CLP 3.1.2. OECD 403
<u>Skin:</u> Not classified	ATE > 2000 mg/kg bw	-	# Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.2. OECD 402
<u>Eyes:</u> Not classified	Not available	-	# Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> Not classified	ATE > 2000 mg/kg bw	-	# Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.2. OECD 401

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	# Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 1.2.6. 3.8.2.2.1.
<u>Skin corrosion/irritation:</u> 	Skin 	Cat. 2	# IRRITANT: Causes skin irritation.	GHS/CLP 3.2.2. OECD 404
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat. 2	# IRRITANT: Causes serious eye irritation.	GHS/CLP 3.3.2. OECD 405
<u>Respiratory sensitisation:</u> Not classified	-	-	# Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.2.1.
<u>Skin sensitisation:</u> Not classified	-	-	# Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	GHS/CLP 3.4.2.2. OECD 406

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified	-	-	# Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.2.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:Carcinogenic effects: # It is not considered as a carcinogenic product.Genotoxicity: # It is not considered as a mutagenic product.Toxicity for reproduction: # Does not harm fertility. Does not harm the unborn child.Effects via lactation: # Not classified as a hazardous product for children breast-fed.



RUST REMOVER
Code: 11.01



DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: # May be absorbed by inhalation of aerosol, through the skin and by ingestion.

Short-term exposure:

Long-term or repeated exposure: # The lungs may be affected by prolonged or repeated exposure to vapour or aerosol. Repeated or prolonged skin contact causes chronic dermatitis.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOKINETICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: # Not available.

Basic toxicokinetics: # Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

12.1 TOXICITY:

Acute toxicity in aquatic environment :

Orthophosphoric acid

LC50 (OECD 203)
mg/l-96hours

138. Fishes

EC50 (OECD 202)
mg/l-48hours

265. Daphnia

EC50 (OECD 201)
mg/l-72hours

> 100. Algae

No observed effect concentration

Not available

Lowest observed effect concentration

Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity

Cat.

Main hazards to the aquatic environment

Criteria

Acute aquatic toxicity:

Not classified

-

Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).

GHS/CLP
4.1.2.

Chronic aquatic toxicity:

Not classified

-

Not classified as a dangerous product with chronic toxicity to aquatic life with long lasting effects (based on available data, the classification criteria are not met).

GHS/CLP
4.1.2.

12.2 PERSISTENCE AND DEGRADABILITY:

Not applicable (inorganic substance).

Biodegradability:

Not readily biodegradable.

Hydrolysis: # Not applicable.

Photodegradability: # Not applicable (inorganic substance).

12.3 BIOACCUMULATIVE POTENTIAL:

Not applicable.

12.4 MOBILITY IN SOIL:

Not available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfil the PBT/VPvB criteria.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential: # Not applicable.

Photochemical ozone creation potential: # Not applicable.

Earth global warming potential: # Not applicable.

Endocrine disrupting potential: # No.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: # Directive 2008/98/EC~Regulation (EU) no. 1357/2014:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: # Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.



RUST REMOVER
Code: 11.01



SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: 1805

14.2 UN PROPER SHIPPING NAME:
PHOSPHORIC ACID SOLUTION

14.3 TRANSPORT HAZARD CLASS(ES):

Transport by road (ADR 2019) and
Transport by rail (RID 2019):

- Class:	8
- Packing group:	III
- Classification code:	C1
- Tunnel restriction code:	(E)
- Transport category:	3, max. ADR 1.1.3.6. 1000 L
- Limited quantities:	5 L (see total exemptions ADR 3.4)
- Transport document:	Consignment paper.
- Instructions in writing:	ADR 5.4.3.4



Transport by sea (IMDG 39-18):

- Class:	8
- Packing group:	III
- Emergency Sheet (EmS):	F-A,S-B
- First Aid Guide (MFAG):	700
- Marine pollutant:	No.
- Transport document:	Shipping Bill of lading.



Transport by air (ICAO/IATA 2020):

- Class:	8
- Packing group:	III
- Transport document:	Air Bill of lading.



Transport by inland waterways (ADN):

Not available.

14.4 PACKING GROUP:
See section 14.3

14.5 ENVIRONMENTAL HAZARDS:
Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure.

14.7 TRANSPORT IN BULK ACCORDING TO AN NEX II OF MARPOL 73/78 AND THE IBC CODE:
Not available.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Tactile warning of danger: Not applicable (the classification criteria are not met).

Child safety protection: Not applicable (the classification criteria are not met).

VOC information on the label:

Contains VOC max. 0.1 g/l - The limit value 2004/42/CE-IIA cat. i) for the product ready for use is VOC max. 500. g/l (2010).

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Other local legislations:

The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 CHEMICAL SAFETY ASSESSMENT:
A chemical safety assessment has been carried out for this product.



RUST REMOVER
Code: 11.01



SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008~2020/217 (CLP), Annex III:

H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.

Notes related to the identification, classification and labelling of the substances:

Note B : Some substances are placed on the market in aqueous solutions at various concentrations and these solutions require different classification and labelling since the hazards vary at different concentrations.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- # · European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- # · Access to European Union Law, <http://eur-lex.europa.eu/>
- Threshold Limit Values, (AGCIH, 2018).
- European agreement on the international carriage of dangerous goods by road, (ADR 2019).
- International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- # · CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- # · EINECS: European Inventory of Existing Commercial Chemical Substances.
- # · ELINCS: European List of Notified Chemical Substances.
- # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- # · SVHC: Substances of Very High Concern.
- # · PBT: Persistent, bioaccumulable and toxic substances.
- # · vPvB: Very persistent and very bioaccumulable substances.
- # · DNEL: Derived No-Effect Level (REACH).
- # · PNEC: Predicted No-Effect Concentration (REACH).
- # · LD50: Lethal dose, 50 percent.
- # · LC50: Lethal concentration, 50 percent.
- # · UN: United Nations Organisation.
- # · ADR: European agreement concerning the international carriage of dangerous goods by road.
- # · RID: Regulations concerning the international transport of dangerous goods by rail.
- # · IMDG: International Maritime code for Dangerous Goods.
- # · IATA: International Air Transport Association.
- # · ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:Revision:

Version: 6

18/10/2018

Version: 7

27/11/2020

Changes since previous Safety Data Sheet:

Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.