

instaquim®

NEUGRAS

Code : G1514



Version: 17

Revision: 08/09/2026

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Date of printing: 08/09/2026

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

1.1

PRODUCT IDENTIFIER:

NEUGRAS

Code : G1514 UFI: SPEM-2KXG-1CEQ-3JAD

1.2

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended uses (main technical functions): ☒ Industrial ☒ Professional ☐ Consumers

Grease remover.

Sectors of use:

Professional uses (SU22).

Types of PCN use:

Other cleaning, care and maintenance products (excludes biocidal products).

Uses advised against:

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".

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not restricted.

1.3

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

DETERVIC, S.A.

P.I. Can Malloles - St. Llorenç Desmunts, 32 - 08500 Vic (Barcelona) ESPAÑA

Phone number: +34 93 8891344 - Fax: +34 93 8891640 - www.instaquim.com

- E-mail address of the person responsible for the Safety Data Sheet:

deptecnicolab@instaquim.com

1.4

EMERGENCY TELEPHONE NUMBER:

+34 93 8891344 8:00-15:00 h.

 National Poisons Information Service (NPIS) - In England, Wales or Scotland: dial 111 - In N Ireland: contact your local GP or pharmacist during normal hours.

SECTION 2 : HAZARDS IDENTIFICATION

2.1

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

Classification in accordance with Regulation (EU) No. 1272/2008~2024/2564 (CLP):

DANGER:Skin Irrit. 2:H315|Eye Dam. 1:H318

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: Not classified					
Human health:	 Skin Irrit. 2:H315c) Eye Dam. 1:H318c)	Cat.2 Cat.1	Skin Eyes	Skin Eyes	Irritation Serious lesions
Environment: Not classified					

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

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2

LABEL ELEMENTS:

 This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2024/2564 (CLP).

- Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

- Precautionary statements:

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P332+P313 If skin irritation occurs: Get medical attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Supplementary statements:

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	<u>- Substances that contribute to classification:</u> 2-aminoethanol
2.3	<u>OTHER HAZARDS:</u> Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>- Other physicochemical hazards:</u> No other relevant adverse effects are known. <u>- Other adverse human health effects:</u> Prolonged exposure to vapours may produce transient drowsiness. <u>- Other negative environmental effects:</u> Does not contain substances that fulfil the PBT/vPvB criteria. <u>Endocrine disrupting properties:</u> This product does not contain substances with endocrine disrupting properties identified or under evaluation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	<u>SUBSTANCES:</u> Not applicable (mixture).			
3.2	<u>MIXTURES:</u> This product is a mixture. <u>Chemical description:</u> Solution of chemicals in aqueous media. <u>HAZARDOUS INGREDIENTS:</u> Substances taking part in a percentage higher than the exemption limit:			
	2,5 < C ≤ 5 %	 2-Butoxyethanol CAS: 111-76-2, EC: 203-905-0, REACH: 01-2119475108-36 CLP: Danger: Acute Tox. (inh.) 3:H331 (ATE=3000 mg/m3) Acute Tox. (oral) 4:H302 (ATE=1200 mg/kg) Skin Irrit. 2:H315 Eye Irrit. 2:H319	ATP18	
	1 < C ≤ 3 %	  2-aminoethanol CAS: 141-43-5, EC: 205-483-3, REACH: 01-2119486455-28 CLP: Danger: Acute Tox. (inh.) 4:H332 (ATE=11000 mg/m3) Acute Tox. (skin) 4:H312 (ATE=1100 mg/kg) Acute Tox. (oral) 4:H302 (ATE=1089 mg/kg) Skin Corr. 1B:H314 STOT SE (irrit.) 3:H335	CLP00	STOT SE (irrit.) 3, H335: C ≥ 5 %
	C ≤ 1 %	 Tetrapotassium pyrophosphate CAS: 7320-34-5, EC: 230-785-7, REACH: 01-2119489369-18 CLP: Warning: Eye Irrit. 2:H319	REACH	
	<u>Impurities:</u> Does not contain other components or impurities which will influence the classification of the product.			
	<u>Stabilizers:</u> None.			
	<u>Reference to other sections:</u> For more information on hazardous ingredients, see sections 8, 11, 12 and 16.			
	<u>SUBSTANCES OF VERY HIGH CONCERN (SVHC):</u> List updated by ECHA on 04/02/2026.			
	<u>Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:</u> None.			
	<u>Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:</u> None.			
	<u>PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:</u> Does not contain substances that fulfil the PBT/vPvB criteria.			
	<u>POP substances included in the (EU) REGULATION 2019/1021~2025/1930 on persistent organic pollutants:</u> None.			



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SECTION 4: FIRST AID MEASURES

4.1	DESCRIPTION OF FIRST AID MEASURES:
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Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. 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 of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness.	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 and pain.Prolonged contact may cause skin dryness.	Remove immediately contaminated clothing.Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
Eyes: 	Contact with the eyes produces redness, pain and serious burns.	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.
Ingestion:	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.	If swallowed, seek medical advice immediately and show container or label. 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:
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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:
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Notes to physician:

Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).

Antidotes and contraindications:

Specific antidote not known.

SECTION 5: FIREFIGHTING MEASURES

5.1	EXTINGUISHING MEDIA:
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Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
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As consequence of combustion or thermal decomposition, hazardous products may be produced: phosphorus oxides, carbon monoxide, Carbon dioxide, nitrogen oxides. Exposure to combustion or decomposition products may be a hazard to health.

5.3	ADVICE FOR FIREFIGHTERS:
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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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Avoid direct contact with this product.Avoid breathing vapours.Keep people without protection in opposition to the wind direction.
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..). Keep the remains in a closed container.
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: Not applicable. - 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: # Avoid any spillage in the environment.Pay special attention to the cleaning water. 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. Keep away from sources of heat. If possible, avoid direct contact with sunlight. 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 store: According to current legislation. - Maximum storage period: Not available. - Temperature interval: min:5 °C, max:35 °C (recommended). - Incompatible materials: Keep away from oxidizing agents, acids. - 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 USE(S): # No particular recommendations are required for the use of this product, apart from the instructions already specified in section 1.2.

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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 (WEL)

EH40/2005 WELs (United Kingdom) 2018	Year	WEL-TWA		WEL-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
2-Butoxyethanol	1996	20	98	-	-	BMGV, A3
2-aminoethanol	1978	3	7,5	6	15	

WEL - Workplace Exposure Limit, TWA - Time Weighted Average (8 hours), STEL - Short Term Exposure Limit (15 min).

BMGV - Biological monitoring guidance value. BMGVs are non-statutory and any biological monitoring undertaken in association with a guidance value needs to be conducted on a voluntary basis (ie with the fully informed consent of all concerned).

A3 - Carcinogenic in animals.

- BIOLOGICAL LIMIT VALUES:

Biological monitoring can be a very useful complementary technique to air monitoring when air sampling techniques alone may not give a reliable indication of exposure. Biological monitoring is the measurement and assessment of hazardous substances or their metabolites in tissues, secretions, excreta or expired air, or any combination of these, in exposed workers. Measurements reflect absorption of a substance by all routes. Biological monitoring may be particularly useful in circumstances where there is likely to be significant skin absorption and/or gastrointestinal tract uptake following ingestion, where control of exposure depends on respiratory protective equipment, where there is a reasonably well-defined relationship between biological monitoring and effect, or where it gives information on accumulated dose and target organ body burden which is related to toxicity.

This preparation contains the following substances that have established a biological limit value:

- 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 guidelines included in REACH. DNEL values may differ from an 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 mg/m3		DNEL Cutaneous mg/kg bw/d		DNEL Oral mg/kg bw/d	
2-aminoethanol	b/r (a)	1 (c)	b/r (a)	3 (c)	- (a)	- (c)
2-Butoxyethanol	1091 (a)	98 (c)	89 (a)	125 (c)	- (a)	- (c)
Tetrapotassium pyrophosphate	s/r (a)	17,63 (c)	s/r (a)	s/r (c)	- (a)	- (c)

- DERIVED NO-EFFECT LEVEL, WORKERS:- Local effects, acute and chronic:	DNEL Inhalation mg/m3		DNEL Cutaneous mg/cm2		DNEL Eyes mg/cm2	
2-aminoethanol	b/r (a)	0,51 (c)	m/r (a)	m/r (c)	m/r (a)	- (c)
2-Butoxyethanol	246 (a)	s/r (c)	m/r (a)	s/r (c)	m/r (a)	- (c)
Tetrapotassium pyrophosphate	s/r (a)	s/r (c)	s/r (a)	s/r (c)	b/r (a)	- (c)

- Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

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

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

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

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 mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
2-aminoethanol	0.07	0.007	0.028
2-Butoxyethanol	8.8	0.88	26.4
Tetrapotassium pyrophosphate	s/r	s/r	s/r

- WASTEWATER TREATMENT PLANTS (STP) AND SEDIMENTS IN FRESH- AND MARINE WATER:	PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
2-aminoethanol	100	0.357	0.0357
2-Butoxyethanol	463	34.6	3.46

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	Tetrapotassium pyrophosphate	s/r	s/r	s/r														
	- <u>PREDICTED NO-EFFECT CONCENTRATION, TERRESTRIAL ORGANISMS:- Air, soil and effects for predators and humans:</u>	<u>PNEC Air</u> mg/m3	<u>PNEC Soil</u> mg/kg dw/d	<u>PNEC Oral</u> mg/kg dw/d														
	2-aminoethanol	s/r	1.29	n/b														
	2-Butoxyethanol	s/r	2.33	20														
	Tetrapotassium pyrophosphate	s/r	s/r	n/b														
	n/b - PNEC not derived (not bioaccumulative potential). s/r - PNEC not derived (not identified hazard).																	
8.2	EXPOSURE CONTROLS: APPROPRIATE ENGINEERING CONTROLS:  Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT: - <u>Protection of respiratory system:</u> Avoid the inhalation of vapours. - <u>Protection of eyes and face:</u> Install water taps, sources or eyewash bottles with clean water close to the working area. - <u>Protection of hands and skin:</u> It is recommended to install water taps or sources with clean water close to the working area. <u>Occupational exposure controls: Regulation (EU) No. 2016/425:</u> 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. The recommendations included in this section refer to the product in its pure form, according to its classification and labelling under Regulation (EC) No 1272/2008 (CLP). In situations where the product is used in diluted form, the prevention and protection measures may vary significantly depending on the degree of dilution, the intended use (industrial, professional, or consumer), and the method of application (e.g., spraying, immersion, or manual application). The selection of personal protective equipment (PPE) — such as chemical-resistant gloves, safety goggles, respiratory protection, or protective clothing — should be based on a specific risk assessment carried out in accordance with the principles of Regulation (EC) No 1907/2006 (REACH), taking into account both the effective concentration of the preparation and the frequency and duration of exposure. <table><tr><td>Mask: </td><td>Use respiratory protection if there is a danger of exposure to high concentrations of emanations. Use respiratory protection in foggy ambient.</td></tr><tr><td>Safety goggles: </td><td>Safety goggles for chemicals, with suitable lateral protection (EN166).</td></tr><tr><td>Face shield:</td><td>No.</td></tr><tr><td>Gloves: </td><td>Gloves resistant against chemicals (EN374).</td></tr><tr><td>Boots:</td><td>No.</td></tr><tr><td>Apron:</td><td>No.</td></tr><tr><td>Clothing: </td><td>Suitable work clothes which avoid contact with the product should be worn.</td></tr></table> - <u>Thermal hazards:</u> Not applicable (the product is handled at room temperature). ENVIRONMENTAL EXPOSURE CONTROLS: Avoid any spillage in the environment. Avoid any release into the atmosphere. - <u>Spills on the soil:</u> Prevent contamination of soil. - <u>Spills in water:</u> Do not allow to escape into drains, sewers or water courses. - <u>Water Management Act:</u> 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. - <u>Emissions to the atmosphere:</u> Not applicable.				Mask: 	Use respiratory protection if there is a danger of exposure to high concentrations of emanations. Use respiratory protection in foggy ambient.	Safety goggles: 	Safety goggles for chemicals, with suitable lateral protection (EN166).	Face shield:	No.	Gloves: 	Gloves resistant against chemicals (EN374).	Boots:	No.	Apron:	No.	Clothing: 	Suitable work clothes which avoid contact with the product should be worn.
Mask: 	Use respiratory protection if there is a danger of exposure to high concentrations of emanations. Use respiratory protection in foggy ambient.																	
Safety goggles: 	Safety goggles for chemicals, with suitable lateral protection (EN166).																	
Face shield:	No.																	
Gloves: 	Gloves resistant against chemicals (EN374).																	
Boots:	No.																	
Apron:	No.																	
Clothing: 	Suitable work clothes which avoid contact with the product should be worn.																	

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES					
9.1	<u>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</u> <u>Appearance</u> Physical state: Liquid Clear Colour: # Pink Odour: Characteristic Odour threshold: Not available (mixture). <u>Change of state</u> Freezing point: Not available (mixture). Boiling range: 100* - 336* °C at 760 mmHg <u>- Flammability:</u> Flashpoint: Not flammable Lower/upper flammability or explosive limits: Not available Autoignition temperature: Not applicable. <u>Stability</u> Decomposition temperature: Not available <u>pH-value</u> pH: 11,3 ± 0,5 at 20°C <u>- Viscosity:</u> Dynamic viscosity: Not available. Kinematic viscosity: Not available. <u>- Solubility(ies):</u> Solubility in water Miscible Liposolubility: Not applicable (inorganic product). Partition coefficient: n-octanol/water: Not applicable (mixture). <u>- Volatility:</u> Vapour pressure: # 17,1547* mmHg at 20°C Vapour pressure: # 11,854* kPa at 50°C Evaporation rate: Not available (lack of data). <u>Density</u> Relative density: 1,020 ± 0,04 at 20/4°C Relative water Relative vapour density: # < 1 (lighter than air). <u>Particle characteristics</u> Particle size: Not applicable. <u>- Explosive properties:</u> Not available. <u>- Oxidizing properties:</u> Not classified as oxidizing product. *Estimated values based on the substances composing the mixture. Note: The values “Not available” are used when no data are available on the date of preparation of this document, and “Not applicable” when the data are not relevant due to the nature and/or hazardousness of the product.				
9.2	<u>OTHER INFORMATION:</u> <u>Information regarding physical hazard classes</u> No additional information available. <u>Other security features:</u> VOC (supply): # 8,0 % Weight VOC (supply): # 81,6 g/l Nonvolatile: # 5,86 * % Weight 1h. 60°C 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.				

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SECTION 10: STABILITY AND REACTIVITY

10.1	REACTIVITY: - <u>Corrosivity to metals:</u> It is not corrosive to metals. - <u>Pyrophorical properties:</u> 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 oxidizing agents, acids.
10.4	CONDITIONS TO AVOID: - <u>Heat:</u> Keep away from heat. - <u>Light:</u> If possible, avoid direct contact with sunlight. - <u>Air:</u> The product is not affected by exposure to air, but should not be left the containers open. - <u>Pressure:</u> Not relevant. - <u>Shock:</u> 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 oxidizing agents, acids.
10.6	HAZARDOUS DECOMPOSITION PRODUCTS: # As consequence of thermal decomposition, hazardous products may be produced: phosphorus oxides, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

# No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2024/2564 (CLP).																			
11.1	<u>INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008 :</u>																		
	<u>ACUTE TOXICITY:</u>																		
	Dose and lethal concentrations for individual ingredients:	DL50 (OECD401) mg/kg bw Oral	DL50 (OECD402) mg/kg bw Cutaneous	CL50 (OECD403) mg/m3·4h Inhalation															
	2-aminoethanol	1089 Rat	2504 Rabbit	> 1487 Rat															
	2-Butoxyethanol	1200 Rat	1400 Rabbit	> 2560 Rat															
	Tetrapotassium pyrophosphate	2440 Rat	> 2000 Rabbit	> 1,1 Rat															
	Estimates of acute toxicity (ATE) for individual ingredients:	ATE mg/kg bw Oral	ATE mg/kg bw Cutaneous	ATE mg/m3·4h Inhalation															
	2-aminoethanol	1089	*1100	11000 Vapours															
	2-Butoxyethanol	1200	-	*3000 Vapours															
	Tetrapotassium pyrophosphate	-	-	-															
(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.																			
(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.																			
<table><tr><td>- No observed adverse effect level</td><td>NOAEL Oral mg/kg bw/d</td><td>NOAEL Cutaneous mg/kg bw/d</td><td>NOAEC Inhalation mg/m3</td></tr><tr><td>2-aminoethanol</td><td>300 Rat</td><td></td><td>150 Rat</td></tr><tr><td>Tetrapotassium pyrophosphate</td><td>500 Rat</td><td></td><td></td></tr></table>					- No observed adverse effect level	NOAEL Oral mg/kg bw/d	NOAEL Cutaneous mg/kg bw/d	NOAEC Inhalation mg/m3	2-aminoethanol	300 Rat		150 Rat	Tetrapotassium pyrophosphate	500 Rat					
- No observed adverse effect level	NOAEL Oral mg/kg bw/d	NOAEL Cutaneous mg/kg bw/d	NOAEC Inhalation mg/m3																
2-aminoethanol	300 Rat		150 Rat																
Tetrapotassium pyrophosphate	500 Rat																		
<u>- Lowest observed adverse effect level</u> Not available																			
<u>INFORMATION ON LIKELY ROUTES OF EXPOSURE: ACUTE TOXICITY:</u>																			
<table><tr><td>Routes of exposure</td><td>Acute toxicity</td><td>Cat.</td><td>Main effects, acute and/or delayed</td><td>Criteria</td></tr><tr><td>Inhalation: Not classified</td><td>ATE > 20000 mg/m3</td><td>-</td><td>Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).</td><td>GHS/CLP 3.1.3.6.</td></tr><tr><td>Skin: Not classified</td><td>ATE > 5000 mg/kg bw</td><td>-</td><td>Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).</td><td>GHS/CLP 3.1.3.6.</td></tr></table>					Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria	Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.	Skin: Not classified	ATE > 5000 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 3.1.3.6.
Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria															
Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.															
Skin: Not classified	ATE > 5000 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 3.1.3.6.															

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Eyes: Not classified	Not available.	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 5000 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 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

GHS/CLP 1.2.5: Classification of the mixture based on its components (supplementary hazard information).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Respiratory corrosion/irritation: 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. 3.8.3.4.
- Skin corrosion/irritation: 	Skin 	Cat.2	IRRITANT: Causes skin irritation.	GHS/CLP 3.2.3.3.
- Serious eye damage/irritation: 	Eyes 	Cat.1	DAMAGE: Causes serious eye damage.	GHS/CLP 3.3.3.3.
- Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
- Skin sensitisation: Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 1.2.6: Classification of the mixture based on its components (supplementary hazard information).

- ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Aspiration hazard: Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

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

Not classified as a dangerous product for target organs.

CMR EFFECTS:

- Carcinogenic effects:

It is not considered as a carcinogenic product.

GHS/CLP 3.6.3.1: Classification of the mixture when data are available for all components or only for some components.

- Genotoxicity:

It is not considered as a mutagenic product.

GHS/CLP 3.5.3.1: Classification of the mixture when data are available for all components or only for some components.

- Toxicity for reproduction:

Does not harm fertility. Does not harm the unborn child.

GHS/CLP 3.7.3.1: Classification of the mixture when data are available for all components or only for some components.

- Effects via lactation:

Not classified as a hazardous product for children breast-fed.

GHS/CLP 3.7.3.1: Classification of the mixture when data are available for all components or only for some components.

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

Routes of exposure

May be absorbed by inhalation of vapour, through the skin and by ingestion.

- Short-term exposure:

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May irritate the eyes and skin.Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed.The mists of fine particles are skin and respiratory tract irritants.Causes serious eye damage. Causes skin irritation. Causes serious eye damage.

- Long-term or repeated exposure:
Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

INTERACTIVE EFFECTS:
Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:
- Dermal absorption:
This preparation contains the following substances for which dermal absorption can be very high: 2-aminoethanol , 2-Butoxyethanol.
- Basic toxicokinetics:
Not available.

ADDITIONAL INFORMATION:
Not available.

11.2

INFORMATION ON OTHER HAZARDS:

Endocrine disrupting properties:
This product does not contain substances with endocrine disrupting properties identified or under evaluation.

Other information:
No additional information available.

SECTION 12: ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2024/2564 (CLP).

12.1

TOXICITY:

- Acute toxicity in aquatic environment for individual ingredients	CL50 (OECD 203) mg/l · 96hours	CE50 (OECD 202) mg/l · 48hours	CE50 (OECD 201) mg/l · 72hours
2-aminoethanol	105 - Fishes	27 - Daphniae	2.8 - Algae
2-Butoxyethanol	1474 - Fishes	690 - Daphniae	623 - Algae
Tetrapotassium pyrophosphate	100 - Fishes	100 - Daphniae	100 - Algae

- No observed effect concentration	NOEC (OECD 210) mg/l · 28 days	NOEC (OECD 211) mg/l · 21 days	NOEC (OECD 201) mg/l · 72 hours
2-aminoethanol	1.2 - Fishes	0.85 - Daphniae	0.7 - Algae
2-Butoxyethanol	100 - Fishes	100 - Daphniae	88 - Algae

- 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 4.1.3.5.5.3.
- Chronic aquatic toxicity:	-	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 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.
CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2

PERSISTENCE AND DEGRADABILITY:

- Biodegradability:
The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days.Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

Aerobic biodegradation for individual ingredients	COD mgO2/g	%DBO/DQO 5 days 14 days 28 days	Biodegradability
2-aminoethanol	1540	68 - 90	Easy
2-Butoxyethanol	2210	52 67 83	Easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

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	- <u>Hydrolysis</u>: Not available. - <u>Photodegradability</u>: Not available.																		
12.3	<u>BIOACCUMULATIVE POTENTIAL</u>: Not available. <table><tr><th>Bioaccumulation for individual ingredients</th><th>logPow</th><th>BCF L/kg</th><th>Potential</th></tr><tr><td>2-aminoethanol</td><td>-2.3</td><td>3.2 (calculated)</td><td>No bioaccumulable</td></tr><tr><td>2-Butoxyethanol</td><td>0.81</td><td>3.2 (calculated)</td><td>No bioaccumulable</td></tr><tr><td>Tetrapotassium pyrophosphate</td><td></td><td></td><td>No bioaccumulable</td></tr></table>			Bioaccumulation for individual ingredients	logPow	BCF L/kg	Potential	2-aminoethanol	-2.3	3.2 (calculated)	No bioaccumulable	2-Butoxyethanol	0.81	3.2 (calculated)	No bioaccumulable	Tetrapotassium pyrophosphate			No bioaccumulable
Bioaccumulation for individual ingredients	logPow	BCF L/kg	Potential																
2-aminoethanol	-2.3	3.2 (calculated)	No bioaccumulable																
2-Butoxyethanol	0.81	3.2 (calculated)	No bioaccumulable																
Tetrapotassium pyrophosphate			No bioaccumulable																
12.4	<u>MOBILITY IN SOIL</u>: Not available <table><tr><th>Mobility for individual ingredients</th><th>log P_{oc}</th><th>Constant of Henry Pa·m³/mol 20°C</th><th>Potential</th></tr><tr><td>2-aminoethanol</td><td>-0,78</td><td>3,7E-05 (calculated)</td><td>No bioaccumulable</td></tr><tr><td>2-Butoxyethanol</td><td>0,88</td><td>0,05 (calculated)</td><td>No bioaccumulable</td></tr></table>			Mobility for individual ingredients	log P _{oc}	Constant of Henry Pa·m ³ /mol 20°C	Potential	2-aminoethanol	-0,78	3,7E-05 (calculated)	No bioaccumulable	2-Butoxyethanol	0,88	0,05 (calculated)	No bioaccumulable				
Mobility for individual ingredients	log P _{oc}	Constant of Henry Pa·m ³ /mol 20°C	Potential																
2-aminoethanol	-0,78	3,7E-05 (calculated)	No bioaccumulable																
2-Butoxyethanol	0,88	0,05 (calculated)	No bioaccumulable																
12.5	<u>RESULTS OF PBT AND VPVB ASSESMENT</u>:(Annex XIII of Regulation (EC) no. 1907/2006:) Does not contain substances that fulfil the PBT/vPvB criteria.																		
12.6	<u>ENDOCRINE DISRUPTING PROPERTIES</u>: This product does not contain substances with endocrine disrupting properties identified or under evaluation.																		
12.7	<u>OTHER ADVERSE EFFECTS</u>: - <u>Ozone depletion potential</u>: # Does not contain substances listed in Regulation (EU) No 2024/590 on substances that deplete the ozone layer. - <u>Photochemical ozone creation potential</u>: Not available. - <u>Earth global warming potential</u>: Not available.																		

SECTION 13: DISPOSAL CONSIDERATIONS

13.1

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SECTION 14: TRANSPORT INFORMATION

14.1	<u>UN NUMBER OR ID NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3	<u>TRANSPORT HAZARD CLASS(ES):</u> <u>Transport by road (ADR 2025) and</u> <u>Transport by rail (RID 2025):</u> No reglamented <u>Transport by sea (IMDG 41-22):</u> No reglamented <u>Transport by air (ICAO/IATA 2024):</u> No reglamented <u>Transport by inland waterways (ADN):</u> No reglamented
14.4	<u>PACKING GROUP:</u> No reglamented
14.5	<u>ENVIRONMENTAL HAZARDS:</u> # Not applicable.
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> 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. Ensure adequate ventilation.
14.7	<u>MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:</u> Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1	<u>SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:</u> The regulations applicable to this product generally are listed throughout this Safety Data Sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met). <u>Child safety protection:</u> Not applicable (the classification criteria are not met). <u>Specific legislation on detergents:</u> It is applicable the Regulation (EC) No. 648/2004~907/2006 on detergents. Contains: Less than 5%: Phosphates, Anionic surfactants, Non-ionic surfactants. <u>OTHER REGULATIONS:</u> In those aspects not considered by the Regulation (EC) No. 648/2004~907/2006 on detergents, it is applicable the Recommendation 89/542/EEC, for the labelling of detergents and cleaning products. <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Other local legislations:</u> The receiver should verify the possible existence of local regulations applicable to the chemical.
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> A chemical safety assessment has not been carried out for this mixture.

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SECTION 16 : OTHER INFORMATION

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

Hazard statements according the Regulation (EU) No. 1272/2008~2024/2564 (CLP), Annex III:

H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES:

Classification of the mixture	Classification procedure
Skin Irrit. 2:H315	Calculation method
Eye Dam. 1:H318	Calculation method

See sections 9.1, 11.1 and 12.1.

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/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2021).
- European agreement on the international carriage of dangerous goods by road, (ADR 2025).
- International Maritime Dangerous Goods Code IMDG including Amendment 41-22 (IMO, 2022).

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.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LC50: Lethal concentration, 50 percent.
- LD50: Lethal dose, 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. 2020/878.

HISTORIC: REVISION:

Version: 14	05/08/2021
Version: 15	27/03/2023
Version: 16	16/07/2024
Version: 17	08/09/2026

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 #.

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.