

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

K1

Creation date 04th January 2000

Revision date 24th October 2022 Version 4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier** K1

Substance / mixture mixture

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

Mixture's intended use

Acidic cleaning mixture for machine and hand washing.

The use descriptors

IS Use at industrial sites

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other then those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name

Uralská 770/6, Praha, 160 00 Address

Czech Republic

Identification number (CRN) 62910370 VAT Reg No CZ62910370 Phone +420 233 339 688

E-mail petr.johanides@novato.cz

www.novato.cz Competent person responsible for the safety data sheet

ABITEC Name

info@abitec.cz F-mail

1.4. **Emergency telephone number**

Web address

European emergency number: 112

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315 Eye Dam. 1, H318

Most serious adverse physico-chemical effects

The mixture is strongly acidic. May react violently with bases and oxidizing agents. Avoid contact with open flames and heat sources. Imperfect thermal decomposition at high temperatures can release hazardous gases. Avoid inhalation.

Most serious adverse effects on human health and the environment

Eye contact may cause severe irritation to eye damage (redness, burning, tearing, conjunctivitis to corneal damage). Irritating to skin (redness, itching, burning, or severe irritation). Abdominal pain and nausea may occur if the mixture is ingested. Inhalation of the mixture may cause respiratory tract irritation. Secure against confusion with beverages and food. The mixture is not classified as harmful to aquatic organisms and components of the environment. The mixture is strongly acidic, a larger leakage of the mixture can change the pH of the aqueous environment. Do not allow to enter drains, soil, ground or surface water. Follow the instructions for use to avoid risks to humans and the environment. The full text of the classifications and H-statements is given in section 16 of this safety data sheet.



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2.2. Label elements Hazard pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation. H318 Causes serious eye damage.

Precautionary statements

P264 Wash hands and exposed parts of the body thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a ophthalmologist.

P501 Dispose of contents/container to according to applicable regulations.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors, nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 Registration number: 01-2119485924-24	acidum phosphoricum	5-8	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 Specific concentration limit: Skin Corr. 1B, H314: $C \ge 25\%$ Eye Irrit. 2, H319: 10 % ≤ $C < 25\%$ Skin Irrit. 2, H315: 10 % ≤ $C < 25\%$	1, 2
CAS: 68439-57-6 EC: 270-407-8 Registration number: 01-2119513401-57	Sulfonic acids, C14-16 (even) - alkanehydroxy and C14-16 (even) -alkene, sodium salts, aqueous solution	5-8	Skin Irrit. 2, H315 Eye Dam. 1, H318 Specific concentration limit: Eye Dam. 1, H318: $C \ge 3$ % Eye Irrit. 2, H319: 1 % $\le C < 3$ % Skin Irrit. 2, H315: $C \ge 10$ %	



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 106232-83-1 EC: 932-186-2	Alcohols, C12-15-branched and linear, ethoxylated (> = 6 - <15 EO)	2-5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: $C \ge 3\%$ Eye Irrit. 2, H319: $1\% \le C < 3\%$ Aquatic Chronic 3, H412: $C \ge 25\%$	
Index: 016-026-00-0 CAS: 5329-14-6 EC: 226-218-8	sulphamidic acid	2-5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Specific concentration limit: Skin Irrit. 2, H315; Eye Irrit. 2, H319: $C \ge 10 \%$ Skin Irrit. 2, H315: $C \ge 10 \%$ Aquatic Chronic 3, H412: $C \ge 25 \%$	
CAS: 106232-83-1 EC: 932-186-2	Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)	<1	Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: $C \ge 3\%$ Eye Irrit. 2, H319: $1\% \le C < 3\%$ Aquatic Chronic 3, H412: $C \ge 25\%$	

Notes

- 1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In all cases of doubt, or when feeling unwell, seek medical advice and show this safety data sheet to the physician. When providing first aid, ensure the safety of both the rescued and the rescued. In case of life-threatening conditions, perform resuscitation (artificial respiration or heart massage). Place the unconscious person in a stable position and do not give anything by mouth. Avoid cooling down. Do not induce vomiting. Avoid inhalation of vomit in case of spontaneous vomiting.

If inhaled

Discontinue exposure, rinse mouth with water. Provide a source of fresh air, warmth and peace. Seek medical attention if breathing difficulties or respiratory tract irritation occur.

If on skin

Remove affected clothing. Remove obstacles (rings, bracelets, watches, etc.) at the point of skin contact. Wipe off the product, wash thoroughly with water, provided that the skin is not disturbed with soap, and treat with a regenerating cream. If signs of irritation or disruption appear, cover the affected skin with a sterile bandage and seek medical attention.



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If in eyes

Rinse eyes and surroundings. If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye towards the outside with plenty of clean lukewarm water, especially the area under the eyelids. Rinse for at least 15-30 minutes, seek medical attention. Also rinse the eyes during transport to the doctor. Medical treatment must always be provided, even in the event of minor exposure.

If swallowed

DO NOT INDUCE VOMITING. In case of spontaneous vomiting, avoid inhaling vomit. Rinse mouth thoroughly with water, give 1-2 glasses of cold water to drink (only if the person is conscious and has no pain). Seek medical attention immediately. Submit packaging, label or this safety data sheet. Do not serve food or activated charcoal. In case of a person without symptoms, contact the Toxicological Information Center by telephone to decide on the need for medical treatment, provide information on the substances or composition of the product from the original packaging or from the safety data sheet of the mixture.

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

If inhaled

Inhalation of the mixture may cause respiratory tract irritation.

If on skin

Irritating to skin (redness, itching, burning, or severe irritation).

If in eves

Eye contact may cause severe irritation to eye damage (redness, burning, tearing, conjunctivitis to corneal damage).

If swallowed

Abdominal pain and nausea may occur if the mixture is ingested.

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

Immediate medical attention is not required during normal use of the mixture and adherence to the instructions for use. Immediate medical attention is required in case of ingestion and in case of eye contact. Seek medical attention if symptoms persist or if respiratory or skin irritation occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area. Multipurpose powders, CO2, foam, water mist,

Unsuitable extinguishing media

Full stream of water.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition at high temperatures or fire may produce hazardous decomposition products. Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Adapt protective equipment to the nature of the fire (self-contained breathing apparatus, emergency suit). Cover the product near the fire with spray water or cover with foam. Fire residues and water after treatment should be disposed of as hazardous waste.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, secure and insulate spill area. Ensure adequate ventilation of the work area, do not inhale the spray mixture. Avoid contact with skin and eyes - use personal protective equipment. Secure against confusion with beverages and food. Avoid contact with heat sources and open flames.

6.2. Environmental precautions

Provide space for leakage, collect escaping mixture. Do not allow to enter drains, soil, surface water or groundwater by creating catchment lagoons. In case of a large liquid leak, monitor the concentrations of NPK resp. TLV and inform the relevant authorities and administrators of the flow or sewer.

6.3. Methods and material for containment and cleaning up

Stop leak. In the event of a large spill, drain the mixture. In case of a small leak, cover with a suitable sorbent (universal sorbent, sand, diatomaceous earth, acid adsorbents, etc.), store the used sorbent in a closable waste container and dispose of it as hazardous waste. Wash contaminated area.



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6.4. Reference to other sections

For recommended personal protective equipment, see Section 8. Dispose of unused product according to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Always read the operating instructions in detail before using. Ensure adequate ventilation of the work area. Avoid contact with open flames and sources of ignition. Avoid contact with eyes and skin, do not inhale fumes or spray mixture, use personal protective equipment according to sec. 8. Avoid confusion with drinks. The work area should be equipped with a source of drinking water. Avoid the formation of vapors in concentrations exceeding the maximum permissible concentrations for the working atmosphere. Observe the applicable health and safety legislation. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soap and water before breaks, meals and after work. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities 7.2.

Store tightly closed in the original container in a cool, well-ventilated place. Store away from heat sources. Store away from strong bases and oxidizing agents. Store away from food, drink and animal feeding stuffs. Keep out of reach of children. The warehouse should be equipped with a source of drinking water.

Storage temperature: 5 - 25 ° C.

Recommended packaging material - HDPE (2), High density (linear) polyethylene (Plastics)

Follow the instructions on the label.

Quantitative limits under given storage conditions: not stated Quantity limit under established storage conditions: Not specified

Content	Packaging type	Material of package
51	jerry can	HDPE
10	jerry can	HDPE
25 I	jerry can	HDPE
40 I	jerry can	HDPE
200 I	barrel / drum	HDPE

Storage class

Storage temperature

12 - Other non-combustible liquids

min 5 °C, max 25 °C

7.3. Specific end use(s)

Refer to the instruction manual.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Ensure compliance with Government Regulation 361/2007 Coll., As amended, which lays down the conditions for health protection at work, as amended, and fulfill the obligations contained therein.

Czech Republic

Government Regulation 330/2023 Coll.

Substance name (component)	Туре	Value	Note
	PEL	1 mg/m³	
asidum phasphariaum (CAS), 7C(4, 20, 2)	PEL	0,25 ppm	irritating to mucous membranes
acidum phosphoricum (CAS: 7664-38-2)	NPK-P	2 mg/m³	(eyes, respiratory system) and skin
	NPK-P	0,49 ppm	



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Czech Republic

Government Regulation 9/2013 Coll.

Substance name (component)	Туре	Value	Note
acidum phosphoricum (CAS: 7664-38-2)	PEL	1 mg/m³	irritating to mucous membranes
	NPK-P	2 mg/m³	(eyes, respiratory system) and skin

European Union

Commission Directive 2000/39/EC

Substance name (component)	Туре	Value	Note
	OEL 8 hours	1 mg/m³	
acidum phosphoricum (CAS: 7664-38-2)	OEL 15 minutes	2 mg/m³	

European Union EU limits

Substance name (component)	Туре	Value	Note
	OEL 8 hours	1 mg/m³	
acidum phosphoricum (CAS: 7664-38-2)	OEL 15 minutes	2 mg/m³	R

DNEL

acidum phosphoricum						
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Workers	Inhalation	10.7 mg/m ³	Chronic effects systemic			
Workers	Inhalation	1 mg/m³	Chronic effects local			

8.2. Exposure controls

Ensure adequate ventilation, or work space extraction. In case of insufficient ventilation or spray application, wear suitable respiratory equipment. Avoid contact with skin and eyes, do not breathe fumes. Secure against confusion with beverages. Observe hygienic measures when working with chemicals. The work area should be equipped with a source of drinking water. Do not eat, drink or smoke while working. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Work clothes. Wash affected skin, take off contaminated clothing, wash before reuse. Acid-resistant protective gloves (material eg: nitrile, permeability> 480 min., Thickness 0.11 mm). When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Before first use, test at a specific workplace. Replace damaged gloves.

Respiratory protection

Avoid inhaling the spray mixture. If exposure limits are exceeded or in a poorly ventilated environment, use a half mask with an acid vapor filter. In the event of an accident or prolonged exposure, use self-contained breathing apparatus.

Thermal hazard

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

Observe the usual environmental precautions. Avoid leakage into sewers, underground and surface water and soil.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid Colour yellow

Odour characteristic
Melting point/freezing point data not available

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

boiling point of initial boiling point and boiling range 100 °C

Flammability the mixture is not flammable

Lower and upper explosion limitdata not availableFlash pointdata not availableAuto-ignition temperaturedata not availableDecomposition temperaturedata not available

pH 2.1 (undiluted)
Kinematic viscosity data not available

Solubility in water soluble - The mixture must be added to the water, not the

other way around, slowly and with constant stirring.

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Partition coefficient n-octanol/water (log value) data not available Vapour pressure data not available

Density and/or relative density

Density 1.05-1.08 g/cm³ at 20 °C

Relative vapour density data not available Particle characteristics data not available

9.2. Other information

Explosive properties: The mixture does not show explosive properties.

Oxidizing properties: The mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is strongly acidic. If the recommended use is followed, the mixture does not show dangerous reactions.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

Contact with acids or oxidizing agents may cause an exothermic reaction. The mixture must be added to the water, not the other way around, slowly and with constant stirring.

10.4. Conditions to avoid

Temperatures below 0 ° C and above 30 ° C, heating, direct sunlight, contact with open flame.

10.5. Incompatible materials

Strong acids and bases, oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Thermal decomposition at high temperatures produces dangerous decomposition products: COx, NOx, etc. The mixture must be added to the water, not the other way around, slowly and with constant stirring.

SECTION 11: Toxicological information

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

The mixture meets the criteria for classification according to EC Regulation No. 1272/2008. The mixture is classified as dangerous in the sense of EC Regulation No. 1272/2008, as amended.



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Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

acidum phosphoricum							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	850 mg/kg		Rat (Rattus norvegicus)			
Inhalation	LD50	1.689 mg/l	1 hour	Rabbit			
Dermal	LD50	2740 mg/kg		Rabbit			

Alcohols, C1	Alcohols, C12-15-branched and linear, ethoxylated (> = 6 - <15 EO)						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD50	300-2000 mg/kg		Rat (Rattus norvegicus)		Observation method	vlastní výsledky testů/lite rární poznatky
Dermal	LD50	>2000 mg/kg		Rabbit			vlastní výsledky testů/lite rární poznatky
Inhalation	LC50	>1.6 mg/l	6 hours	Rat (Rattus norvegicus)		Observation method	Hodnota zadaná v literatuře

Alcohols, C1	Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD50	300-2000 mg/kg		Rat (Rattus norvegicus)		Observation method	vlastní výsledky testů/lite rární poznatky
Dermal	LD50	>2000 mg/kg		Rabbit			vlastní výsledky testů/lite rární poznatky
Inhalation	LC50	>1.6 mg/l	6 hours	Rat (Rattus norvegicus)		Observation method	Hodnota zadaná v literatuře

Sulfonic acids, C14-16 (even) -alkanehydroxy and C14-16 (even) -alkene, sodium salts, aqueous solution							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD50	2079 mg/kg		Rat (Rattus norvegicus)			
Dermal	LD50	6300-13500 mg/kg		Rabbit			
Inhalation	LC50	>52 mg/kg	4 hours	Rat (Rattus norvegicus)			



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Skin corrosion/irritation

The mixture is classified as skin irritant, category 2. Depending on personal sensitivity and duration of exposure, severe skin irritation may occur.

Serious eye damage/irritation

The mixture is classified as causing eye damage, category 1.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

Eye contact may cause severe irritation to eye damage (redness, burning, tearing, conjunctivitis to corneal damage). Irritating to skin (redness, itching, burning, or severe irritation). Abdominal pain and nausea may occur if the mixture is ingested. Inhalation of the mixture may cause respiratory tract irritation.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

Acute toxicity

acidum phosphoricum						
Parameter	Value	Exposure time	Species	Environment		
LC50	3-3.5 mg/l	96 hours	Fish (Gambusia affinis)			
EC50	4.6 mg/l	12 hours	Invertebrates (Daphnia magna)			

Alcohols, C12-15-branched and linear, ethoxylated (> = 6 - <15 EO)						
Parameter	Value	Exposure time	Species	Environment		
LC50	1-10 mg/l	96 hours	Fish (Cyprinus carpio)			
EC50	1-10 mg/l	48 hours	Invertebrates (Daphnia magna)			
EC50	1-100 mg/l	72 hours	Algae (Desmodesmus subspicatus)			



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Alcohols, C12-15-branched and linear, ethoxylated (> 2.5 EO)						
Parameter	Value	Exposure time	Species	Environment		
LC50	1-10 mg/l	96 hours	Fish (Cyprinus carpio)			
EC50	1-10 mg/l	48 hours	Invertebrates (Daphnia magna)			
EC50	1-100 mg/l	72 hours	Algae (Desmodesmus subspicatus)			

Sulfonic acids, C14-16 (even) -alkanehydroxy and C14-16 (even) -alkene, sodium salts, aqueous solution					
Parameter	Value	Exposure time	Species	Environment	
EC50	4.53 mg/l	48 hours	Daphnia (Daphnia magna)		
LC50	4.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)		

Chronic toxicity

Sulfonic acids, C14-16 (even) -alkanehydroxy and C14-16 (even) -alkene, sodium salts, aqueous solution						
Parameter	Value	Exposure time	Species	Environment		
EC50	5.2 mg/l	72 hours	Algae (Selenastrum capricornutum)			
NOEC	6.3 mg/l	21 days	Daphnia (Daphnia magna)			

12.2. Persistence and degradability

The mixture is biodegradable.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The mixture is water soluble, mobility is likely.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Do not allow to enter soil, ground or surface water or drains. The mixture is strongly acidic. Leakage of larger amounts can change the pH of the aqueous environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste, hand over for disposal to a person authorized to handle hazardous substances or to a hazardous waste collection yard. Dispose of contaminated packaging in the same way as the hazardous mixture itself. Do not empty unused product into drains or dispose of with municipal waste. Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Suitable methods for disposing of contaminated packaging Dispose of as hazardous waste according to local regulations. Uncontaminated packaging can be recycled.

Waste management legislation

Act No. 477/2001 Coll., On packaging, as amended.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.



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Waste type code

20 01 29* detergents containing hazardous substances

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

20 01 39 Plastics

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Always carry closed containers in upright position. Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

SECTION 15: Regulatory information

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

5-<15 % Orthophosphoric acid, <5 % anionic surfactants, <5 % non-ionic surfactants, <5 % Amidosulfuric acid

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H290 May be corrosive to metals.



The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P264 Wash hands and exposed parts of the body thoroughly after handling.

P280 Wear protective gloves/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a ophthalmologist.

P501 Dispose of contents/container to according to applicable regulations.

Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by

road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

EuPCS European Product Categorisation System IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

Dangerous Chemicals

ICAOInternational Civil Aviation OrganizationIMDGInternational Maritime Dangerous GoodsIMOInternational Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log KowOctanol-water partition coefficientNOECNo observed effect concentrationNPKMaximum admissible concentrationOELOccupational Exposure LimitsPBTPersistent, Bioaccumulative and Toxic

PEL Permissible Exposure Limit

ppm Parts per million



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REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Eye Dam. Serious eye damage Met. Corr. Corrosive to metals Skin Corr. Skin corrosion

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Information about data sources used to compile the Safety Data Sheet

Manufacturer data and toxicological databases.

The changes (which information has been added, deleted or modified)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.