ACQUATRAVEL srl
Sede legale Esercizio : Via del Sale, 85/A - 48125 San Pietro in Campiano (RA)
P.I. 02501230391
Recapiti: uff. tecnico Tel 347 055 28 03 - amministrazione Tel 347 22 43 104
www.acquatravel.it - e-mail: info@acquatravel.it

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: **14080000PP**
Product name **LIQUID WC TANICA DA 5 LITRI E MONODOSE DA 50 ML**
UFI: **DS00-G0T0-VOOR-MNG0**

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

Intended use **Toilet liquid with disintegrating and deodorizing action**

Identified Uses	**Industrial**	**Professional**	**Consumer**
Dettlement products - non-reactive	**-**	**-**	**-**
Dettlement products - non-reactive	**-**	**-**	**-**

Uses Advised Against
All those not foreseen

1.3 Details of the supplier of the safety data sheet

Name **ACQUATRAVEL srl**
Full address **via del Sale, 85/A**
District and Country **48125 San Pietro in Campiano (RA) - Italy**
Tel. **+39 347 055 2803**
e-mail address of the competent person responsible for the Safety Data Sheet Supplier: **info@acquatravel.it**

1.4. Emergency telephone number For Italy

For urgent inquiries refer to

- **Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)**
- **Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca`Granda - Milano)**
- **Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)**
- **Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)**
- **Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)**
- **Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)**
- **Centro Antiveleni di Roma 06 68593726 (CAV Ospedale Pediatrico Bambino Gesù)**
- **Centro Antiveleni di Napoli 081 5453333 (CAV Ospedale Cardarelli - Napoli)**
- **Centro Antiveleni di Foggia 800183459 (Az. Osp. Univ. Foggia)**
- **Centro Antiveleni di Verona 800011858 (Azienda Ospedaliera Integrata Verona**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment is given in sections 11 and 12 of these sheets.

Hazard classification and indication:

Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.

toxicity, category 3

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children
P101	If medical advice is needed, have product container or label at hand.
P260	Do not breathe dust/fume/gas/mist/vapours/aerosols
P305-0351-P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301-P330-P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303-P361-P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501	Dispose of the product and container in accordance with regulation.

Contains: 1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

Ingredients (Regulation 648/2004)

_____

Less than 5% Cationic surfactants

Perfumes

Citral, Limonene, Camphor, Menthol, Eucalyptus Globulus Oil

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Identification	**x = Conc. %**	**Classification (EC) 1272/2008 (CLP)**
1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID		
INDEX	4,1 ≤ x < 4,3	**Met. Corr. 1 H290, Acute Tox. 4 H302, Eye Dam. 1 H318**
		LD50 Oral: 1878 mg/kg
EC 220-552-8		
CAS ì2809-21-4		
REACH Reg. 01-2119510391-53-XXXX		
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES		
INDEX	2,3 ≤ x < 2,5	**Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1**
		LD50 Oral: 795 mg/kg
EC 270-325-2		
CAS 68424-85-1		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor. Rinse your mouth with running water. In case of (spontaneous) vomiting, place the

victim on the ground on the left side, with the head down (to keep the airways clear).

Rescuer protection

Information not available

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

The product is corrosive and causes severe burns and blisters on the skin, which can also appear after exposure. Burns cause severe burning and pain. In contact with the eyes it causes serious lesions and can cause opacity of the cornea, lesion of the iris, irreversible coloring of the eye. Vapors and / or dusts are caustic to the respiratory system and can cause pulmonary edema, the symptoms of which sometimes become manifest only after a few hours. Exposure symptoms may include: burning sensation, cough, asthmatic breathing, laryngitis, shortness of breath, headache, nausea and vomiting. Ingestion can cause burns to the mouth, throat and esophagus; vomiting, diarrhea, edema, swelling of the larynx and subsequent suffocation. Perforation of the gastrointestinal tract may also occur Acute effects: the product is harmful if ingested and even small quantities ingested can cause significant health problems (abdominal pain, nausea, vomiting, diarrhea).

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

If medical advice is needed, have product container or label at hand. Symptomatic treatment.

Means to have available in the workplace for specific and immediate treatment

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for
health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with
self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.
Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in

point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Avoid bunching of electrostatic charges. Do not mix with other products. Avoid contact with skin and eyes. Avoid the formation of mists / aerosols. Do not breathe the mists / aerosols. In case of mist / aerosol formation, provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details. Keep the label on the containers. Storage temperature: <40 °C.

7.3. Specific end use(s)

See section 1.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

RUS Россия ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"

1-HYDROXYETHYLIDENE -1,1-DIPHOSPHONIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
ПДК	RUS			2		a

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,136	mg/l
Normal value in marine water	0,014	mg/l
Normal value for fresh water sediment	59	mg/kg
Normal value for marine water sediment	5,9	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				6,5 mg/kg bw/d				13 mg/kg bw/d

Legend:
(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified;
LOW = low hazard MED = medium hazard HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.

HAND PROTECTION
In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION
Protective clothing for chemicals.

EYE PROTECTION
Safety goggles.

RESPIRATORY PROTECTION
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.
Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Property	Value	Method / Notes
Physical state	Liquid	—
Colour	Blue	—
Odour	Characteristic of pine	Organoleptic
Melting/freezing point	Not determined	—
Initial boiling point	Not determined	—
Flammability	Non-flammable	—
Lower explosion limit	Not applicable – Not explosive	—
Upper explosion limit	Not applicable – Not explosive	—
Flash point	Not applicable – Non-flammable	—
Auto-ignition temperature	Not applicable – Non-flammable	—
Decomposition temperature	Not determined	—
pH	1.1–1.5 (at 20 °C)	ISO 4316
Kinematic viscosity	Not determined	—
Solubility	Soluble in water (at 25 °C)	Reg. (EC) No. 440/2008, Annex A.6
Partition coefficient n-octanol/water	Not determined	—
Vapour pressure	Not determined	—
Density / Relative density	1.00–1.05 g/mL (at 20 °C)	Reg. (EC) No. 440/2008, Annex A.3

Vapour density	Not determined	—
Particle characteristics	Not applicable	—

9.2 Other information

No further information available.

9.2.1 Information on physical hazard classes: Not available.

9.2.2 Other safety characteristics: Not available

SECTION 10. Stability and reactivity

10.1 Reactivity

No particular hazards of reaction under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No hazardous reactions expected under normal use or storage.

10.4 Conditions to avoid

None in particular. Follow general precautions for chemical products.

No hazardous reactions if stored and used properly.

10.5 Incompatible materials

- *Quaternary ammonium compounds, benzyl-C12–C16-alkyldimethyl, chlorides:* Incompatible with strong acids, oxidising agents, anionic compounds.
- *1-Hydroxyethylidene-1,1-diphosphonic acid:* Incompatible with strong oxidants and bases.
  Also incompatible with metals.

10.6 Hazardous decomposition products

1-Hydroxyethylidene-1,1-diphosphonic acid

May develop: phosphine, phosphoric acid, phosphorus oxides, carbon oxides, phosphines, phosphoric acid.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, kinetics, mechanism of action, and other information

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed, and chronic effects from short- and long-term exposure

Information not available

Interactive effects

Information not available

Acute toxicity:

- ATE ATE (Inhalation) of the mixture: Not classified. (no relevant behavior)
- ATE (oral) mixture: >2000 mg/kg
- ATE (cutaneous) mixture: Not classified. (no relevant behavior)

Quaternary ammonium compounds, benzyl-C12–C16-alkyldimethyl, chlorides:

LD_{50} oral (rat): 795 mg/kg

1- Hydroxyethylidene-1,1-diphosphonic acid:

LD_{50} oral (rat): 1878 mg/kg;

LD_{50} dermal (rat): 7500 mg/kg

Skin corrosion/irritation:

Skin corrosion

Classification based on the experimental pH value

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES

Corrosive (rabbit, OECD 404)

Serious eye damage/irritation:

Causes serious eye damage

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES

Causes serious eye damage.

Respiratory or skin sensitisation:

Does not meet the classification criteria for this hazard class

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES.

Not sensitizing (Guinea pig, OECD 406).

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on offspring development

Information not available

Effects on or via lactation

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2 Information on other hazards

Based on the available data, the product does not contain any substances listed in the main European inventories of potential or suspected endocrine disruptors with effects on human health currently under evaluation.

SECTION 12. Ecological information

The product is considered hazardous to the environment. Harmful to aquatic organisms with long-lasting effects.

12.1 Toxicity

Quaternary ammonium compounds, benzyl-C12–C16-alkyldimethyl, chlorides:

- LC_{50} (fish, 96 h): 0.85 mg/L (Oncorhynchus mykiss, OECD 203)
- EC_{50} (crustaceans, 48 h): 0.016 mg/L (Daphnia magna)
- EC_{50} (algae, 72 h): 0.02 mg/L (Selenastrum capricornutum, OECD 201)
- EC_{10} (algae, 72 h): 0.0025 mg/L
- NOEC (chronic, crustaceans): 0.025 mg/L

1- Hydroxyethylidene-1,1-diphosphonic acid:

- LC_{50} (fish, 96 h): 300 mg/L
- EC_{50} (crustaceans, 48 h): 500 mg/L

12.2 Persistence and degradability

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES

Readily biodegradable: >60% (activated sludge, OECD 301 D), >90% (activated sludge, OECD 303 A).

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES

Readily biodegradable

1-Hydroxyethylidene-1,1-diphosphonic acid

Water solubility > 10,000 mg/l

Not readily biodegradable

12.3 Bioaccumulative potential

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES .

Partition coefficient: n-octanol/water 2.88 Log Kow (OECD 107) 1-Hydroxyethylidene-1,1-diphosphonic acid: log Kow = –3.5.

No bioaccumulation expected.

12.4 Mobility in soil

1-Hydroxyethylidene-1,1-diphosphonic acid: soil/water partition coefficient = 4.22; high mobility expected.

12.5 Results of PBT and vPvB assessment
Based on the available data. Product contains no PBT or vPvB substances ≥0.1%.

12.6 Endocrine disrupting properties
Based on the available data, the product does not contain any substances listed in the main European inventories of potential or suspected endocrine disruptors with effects on the environment currently under evaluation.

No other adverse effects are known.

12.7 Other adverse effects
No additional information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Reuse if possible. Product residues must be considered hazardous special waste. The hazard level of waste containing this product in part must be assessed according to current legislation.

Disposal must be carried out by an authorized waste management company, in compliance with national and, where applicable, local regulations. Waste transport may be subject to ADR requirements.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

European Waste Code (EWC)

- Contaminated empty container: 15 01 10* (packaging containing residues of or contaminated by hazardous substances)
- Cleaned empty container: 15 01 02 (plastic packaging)

Unused product: 16 03 05* (organic wastes containing hazardous substances)

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, 3265 IATA:

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-HYDROXYETHYLIDENE DIPHOSPHONIC ACID; QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES)

IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID; QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES)

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONIC ACID; QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-C16-ALKYLDIMETHYL, CHLORIDES)

14.3. Transport hazard classes

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

14.4. Packing group
ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for users

ADR / RID: HIN - Kemler: 80
Limited quantities: 5 L
Tunnel restriction code: (E)
Special provision: -

IMDG:
Special provisions:
EMS: F-A, S-B
Limited quantities: 5 L

IATA:
Cargo: Maximum quantity: 60 L; Packing instruction: 856
Passenger: Maximum quantity: 5 L; Packing instruction: 852
Special provisions: A3, A803

14.7. Transport in bulk according to IMO instruments
Information not applicable

SECTION 15. Regulatory information

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

Seveso Directive (2012/18/EU): None.

Restrictions related to the product or the substances contained according to Annex XVII of Regulation (EC) No. 1907/2006:
Product

Points 3 - 40;

Substances:

Point 75.

Regulation (EU) 2019/1148 – Explosives precursors:

Not applicable.

No SVHC (≥0.1%) listed in Candidate List.

No substances subject to authorisation (Annex XIV) or export notification (Reg. (EU) 649/2012).

Not subject to Rotterdam or Stockholm Conventions.

Health surveillance:

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks
related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004
Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.
648/2004 on detergents. 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.

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for the mixture / for the substances listed in section 3.

SECTION 16. Other information

Text of hazard statements (H) referred to in Sections 2–3:

Met. Corr. 1 Corrosive to metals, category 1
Acute Tox. 4 Acute toxicity, category 4
Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long-lasting effects.
H412 Harmful to aquatic life with long-lasting effects.

Decoding of use descriptors:

ERC 8a Wide dispersive indoor use of processing aids in open systems
ERC 8d Wide dispersive outdoor use of non-reactive processing aids (without inclusion into or onto an article)
LCS C Consumer use
LCS PW Widespread use by professional workers
PC 35 Cleaning and washing products
PROC 10 Roller or brush application

PROC 11 Non-industrial spraying applications
PROC 13 Treatment of articles by dipping and pouring
PROC 5 Mixing or blending in batch processes
PROC 9 Transfer of a substance or preparation into small containers (dedicated filling line, including weighing)

Acronyms:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS: Chemical Abstracts Service number
- EC: Identification number in ESIS (European Inventory of Existing Substances)
- CLP: Regulation (EC) No. 1272/2008
- DNEL: Derived No-Effect Level
- EC50: Concentration that causes an effect in 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: Dangerous Goods Regulations of the International Air Transport Association
- IC50: Concentration causing immobilization of 50% of the test population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic (under REACH)
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted No-Effect Concentration
- REACH: Regulation (EC) No. 1907/2006
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any part of the work exposure.
- TWA: Time-Weighted Average exposure limit
- TWA STEL: Short-Term Exposure Limit
- VOC: Volatile Organic Compound
- vPvB: Very Persistent and Very Bioaccumulative (under REACH)
- WGK: Water Hazard Class (Germany)

Regulations referenced:

1. Regulation (EC) 1907/2006 (REACH)
2. Regulation (EC) 1272/2008 (CLP)
3. Regulation (EU) 2020/878 (REACH Annex II)
4. Regulation (EC) No. 790/2009 of the European Parliament (1st ATP. CLP)
5. Regulation (EU) No. 286/2011 of the European Parliament (2nd ATP. CLP)
6. Regulation (EU) No. 618/2012 of the European Parliament (3rd ATP. CLP)
7. Regulation (EU) No. 487/2013 of the European Parliament (4th ATP. CLP)
8. Regulation (EU) No. 944/2013 of the European Parliament (5th ATP. CLP)
9. Regulation (EU) No. 605/2014 of the European Parliament (6th ATP. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (7th ATP. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (8th ATP. CLP)
12. Regulation (EU) 2016/1179 (9th ATP. CLP)
13. Regulation (EU) 2017/776 (10th ATP. CLP)
14. Regulation (EU) 2018/669 (11th ATP. CLP)
15. Regulation (EU) 2019/521 (12th ATP. CLP)
16. Delegated Regulation (EU) 2018/1480 (13th ATP. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (14th ATP. CLP)
19. Delegated Regulation (EU) 2020/1182 (15th ATP. CLP)
20. Delegated Regulation (EU) 2021/643 (16th ATP. CLP)
21. Delegated Regulation (EU) 2021/849 (17th ATP. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Toxicological Sheet
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website

- ECHA Agency Website
- Database of chemical substance SDS models - Ministry of Health and Higher Institute of Health

Disclaimer:
The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product is not under our direct control, it is the user's responsibility to observe, under their own responsibility, the laws and regulations in force concerning hygiene and safety. No responsibility is assumed for improper uses.

Provide adequate training to personnel responsible for handling chemical products.

Methods for calculating classification

Physical and chemical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The evaluation methods for physical and chemical properties are reported in section 9.

Health hazards: The classification of the product is based on the calculation methods set out in Annex I of the CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods set out in Annex I of the CLP Part 4, unless otherwise indicated in section 12.