Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1 Product identifier

Item code	Detergente bagni
Product name	Universal cleaning solution for ultrasonic baths.

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

Intended use
Universal cleaning solution for ultrasonic baths. Applies to codes: 41300253, 41300263.

1.3 Details of the supplier of the safety data sheet

Business name	GIORGIO BORMAC srl
Full address	via della meccanica, 25
Town	Carpi
Postal code	41012
Province	MO
Country	Italy
Phone number	+39 059 653274
e-mail address of the competent person responsible for the Safety Data Sheet	sds@giorgiobormac.com

1.4 Emergency telephone number

For urgent inquiries refer to	+1 352-323-3500

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 are given in sections 11 and 12 of this sheet.

Hazard classification		
Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Serious eye damage, category 1	H318	Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.

2.2 Label elements

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

Hazard pictograms

Signal word

Danger

Hazard statements	
H290	May be corrosive to metals.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statements	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear eye protection / face protection.
P261	Avoid breathing.

Contains
tripotassium orthophosphate

2.3 Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

3 Composition/information on ingredients

3.2 Mixtures

INERT

Concentration	70 %

tripotassium orthophosphate

Concentration	30 %
CAS number	7778-53-2
EC number	231-907-1
Hazard classification	▪ Eye Dam. 1; H318 ▪ STOT SE 3; H335

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

4 First aid measures

4.1 Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.
INHALATION: Remove to open air. Get medical advice if you feel symptoms.

Rescuers protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and

on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: irritant effects
Risks: Causes serious eye damage. May irritate the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment needed

For advice from specialists, doctors should contact the Poisons Information Center. Treat symptomatically.

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

Running water for skin and eye wash.

5 Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEANS The extinguishing media are traditional ones: carbon dioxide, foam, powder and nebulized water.
UNSUITABLE EXTINGUISHING MEDIA Do not use water jets.

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

Special protective equipment for fire fighters: In case of fire, wear breathing apparatus with independent air supply.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Slipping hazard caused by spilled product. Use personal protective equipment.

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

Dry with absorbent material (e.g. cloth, tea towel).
Dry with inert materials (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

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

7 Handling and storage

7.1 Precautions for safe handling

Warnings for safe use: Avoid contact with eyes and skin.
Advice on protection against fire and explosion: No special fire protection measures are required.

Hygiene measures: Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Warehouse and container requirements: Store at room temperature in original container. Do not store at temperatures above 30°C
Additional information on storage conditions: Store away from heat. Protect from direct sunlight. Keep the container tightly closed.
Recommended storage temperature: 5 - 25°C
Information for storage together with other products: There are no materials that need to be specifically mentioned.

Storage class TRGS 510 (Germany)
None

7.3 Specific end use(s)

Information not available.

8 Exposure controls/personal protection

8.1 Control parameters

Information not available.

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.
When choosing risk management measures and operating conditions, consult the exposure scenarios attached.
Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Directive: The selected protective gloves must meet the requirements of Directive (EU) 2016/425 and the EN 374 standards derived from it.
Remarks: Protection against splashes: disposable nitrile rubber gloves e.g. Dermatril (Strength layer: 0.11 mm) manufactured by KCL or other manufacturers offering the same type of protection. Prolonged contact: nitrile rubber gloves e.g. Camatril (<480 Min., Firmness layer: 0.40 mm) or butyl rubber gloves e.g. Butoject (<480 Min., Strength layer: 0.70 mm) manufactured by KCL or other manufacturers offering the same type of protection.

SKIN AND BODY PROTECTION
Work uniform or lab coat.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid	
Colour	Light yellow	
Odour	characteristic	
Melting point / freezing point	< 0 °C (< 32 °F)	

Initial boiling point	> 100 °C (> 212 °F)	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	12.3	Temperature: 20 °C (68 °F)
Kinematic viscosity (40 °C)	Not available	
Dynamic viscosity	0.01 Pa·s	
Solubility	Completely missable with water	Temperature: 20 °C (68 °F)
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	1.43 g/cm³	Temperature: 20 °C (68 °F)
Relative vapour density	Not applicable	

Particle characteristics

Information not available.

9.2 Other information

9.2.1 Information with regard to physical hazards

Flammable liquids	
Sustained combustibility	It does not fuel combustion

9.2.2 Other safety characteristics

Corrosiveness	> 6.25 mm/a Corrosive to Aluminum and Mild Steel metals	
Oxidising properties	Non-oxidizing	

10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Reaction with oxidants

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

possible incompatibilities with alkali-sensitive materials.

10.6 Hazardous decomposition products

Information not available.

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

11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

11.1.2 Information on likely routes of exposure

Information not available.

11.1.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

11.1.4 Interactive effects

Information not available.

11.1.5 ACUTE TOXICITY

tripotassium orthophosphate

Acute inhalation toxicity:
Target organs: Mucous membranes

Symptoms: Local irritation

11.1.6 SKIN CORROSION/IRRITATION

Does not meet the classification criteria for this hazard class

tripotassium orthophosphate

Species: reconstructed human epidermis (RhE)
Method: OECD Guideline 439

Result: No skin irritation

11.1.7 SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage.

tripotassium orthophosphate

Species: Rabbit

Result: Irreversible effects on the eye

11.1.8 RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

tripotassium orthophosphate

Test Type: Local Lymph Node Test (LLNA)

Species: Mouse

Method: OECD Guidelines 429

Result: Not a skin sensitizer.

11.1.9 GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

tripotassium orthophosphate

Genotoxicity in vitro:
Type of test: In vitro gene mutation test on mammalian cells

Test system: mouse lymphoma cells

Method: QSAR

Result: negative

11.1.10 CARCINOGENICITY

Does not meet the classification criteria for this hazard class

tripotassium orthophosphate

Remarks: This information is not available.

11.1.11 REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

tripotassium orthophosphate

Effects on fetal development:
Species: Rat

General maternal toxicity: NOAEL: > 282 mg/kg bw/day

Teratogenicity: NOAEL: > 282 mg/kg body weight/day

11.1.12 STOT - SINGLE EXPOSURE

May cause respiratory irritation.

tripotassium orthophosphate

Target organs: Respiratory system

Assessment : May cause respiratory irritation.

11.1.13 STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

11.1.14 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 substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

12 Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 Toxicity

tripotassium orthophosphate

EC50 - for Crustacea	> 100 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna
LC50 - for Fish	> 100 mg/l	Exposure duration: 96 hours Species/guidelines: Oncorhynchus mykiss
EC50 - for Algae / Aquatic Plants	> 100 mg/l	Exposure duration: 72 hours Species/guidelines: Desmodesmus subspicatus
Chronic NOEC for Algae / Aquatic Plants	> 100 mg/l	Species/guidelines: Desmodesmus subspicatus

12.2 Persistence and degradability

tripotassium orthophosphate

Degradability	Unavailable

12.3 Bioaccumulative potential

tripotassium orthophosphate

Observations: No data available

12.4 Mobility in soil

tripotassium orthophosphate

Observations: No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

Information not available.

13 Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

Hazardous waste classification - Reg. (UE) 1357/2014
HP 4 – Irritant — skin irritation and eye damage
HP 5 – Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

14 Transport information

14.1 UN number or ID number

ADR / RID	IMDG	IATA
1719	1719	1719

14.2 UN proper shipping name

ADR / RID	CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate)
IMDG	CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate)
IATA	CAUSTIC ALKALI LIQUID, N.O.S. (tripotassium orthophosphate)

14.3 Transport hazard class(es)

	Class:	Label	
ADR / RID	8	8	
IMDG	8	8	
IATA	8	8	

14.4 Packing group

ADR / RID	IMDG	IATA
III	III	III

14.5 Environmental hazards

ADR / RID	No	
IMDG	Not marine pollutant	
IATA	No	

14.6 Special precautions for user

ADR / RID			
Hazard identification No. - Kemler	80	Limited Quantities	5 L
Tunnel restriction code	(E)	Special provisions	274
IMDG			
EmS	F-A, S-B	Limited Quantities	5 L

IATA			
Maximum quantity (Cargo)	60 L	Packaging instructions (Cargo)	856
Maximum quantity (Passengers)	5 L	Packaging instructions (Passengers)	852
Special provisions	A3, A803		

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

15 Regulatory information

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

Seveso Category - Directive 2012/18/EU:
None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006		
	Restrictions	Registration Number EU
Product restrictions	3	
Contained substance		
None		

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
Not applicable

Substances in Candidate List (Art. 59 REACH)	Registration Number EU
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.	

Substances subject to authorisation (Annex XIV REACH)	Authorisation Number	Sunset date	Registration Number EU
None			

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Regulation (EU) 2019/1021 - on persistent organic pollutants
None

Healthcare controls
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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)
None

15.2 Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

16 Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:	
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Legend

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EC: Identifier in ESIS (European archive of existing substances)
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

General Bibliography

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

Section 16

General Bibliography

11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification

Chemical and physical hazards:
Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards:
Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards:
Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes from the previous revision

13 Disposal considerations

13.1 Waste treatment methods