

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

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

- **1.1 Product identifier**
- **Trade name:** **DETER SOFT**
- **Article number:** G09-001/002
- **UFI:** G030-N0MV-3003-TEA1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Life cycle stages** PW Widespread use by professional workers
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Application of the substance / the mixture** Detergent powder for washing fabrics
- **Uses advised against** Any use other than those identified is not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
G.B.M. Elettrochimica s.r.l.
via Fiumicino S. Mauro 120/130 - 47039 Savignano sul Rubicone (FC)
tel. 0541/930058 - Fax 0541/810218
www.gbmprodottichimici.it - E-mail gbm@prodottichimici.it
- **Further information obtainable from:** info@gbmprodottichimici.it
- **1.4 Emergency telephone number:**
G.B.M. Elettrochimica srl - Tel. +39 0541 930058 (office hours)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Silicic acid, sodium salt
Alcoli, C11-13 ramificati, etossilati
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements**
P232 Protect from moisture.
P235 Keep cool.

(Contd. on page 2)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 1)

P260 Do not breathe dust.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Additional information:**

• **Regulation (EC) No 648/2004 on detergents / Indication of content**

oxygen-based bleaching agents	≥5 - <15%
anionic surfactants, non-ionic surfactants, phosphonates, soap	<5%

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:**

According to the available data, the product does not contain any PBT substances in a proportion ≥ 0.1%.

• **vPvB:**

According to the available data, the product does not contain vPvB substances in a proportion ≥ 0.1%.

SECTION 3: Composition/information on ingredients

• **3.2 Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19	sodium carbonate ⚠ Eye Irrit. 2, H319	15-30%
CAS: 15630-89-4 EINECS: 239-707-6 Reg.nr.: 01-2119457268-30-	disodium carbonate, compound with hydrogenperoxide (2:3) ⚠ Ox. Sol. 2, H272; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 ATE: LD50 oral: 1,034 mg/kg Specific concentration limits: Eye Dam. 1; H318: C ≥ 25% Eye Irrit. 2; H319: 7.5 % ≤ C < 25 %	5-15%
CAS: 85117-50-6 EINECS: 285-600-2	Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	<5%
CAS: 68951-67-7	Alcohols, C14-15, ethoxylated ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 4, H413 ATE: LD50 oral: 500 mg/kg	<5%
CAS: 7414-83-7 EINECS: 231-025-7	disodium dihydrogen (1-hydroxyethylidene) bisphosphonate ⚠ Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	1-2%
CAS: 1344-09-8 EINECS: 215-687-4 Reg.nr.: 01-2119448725-31	Silicic acid, sodium salt ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	<3%
CAS: 68439-54-3 Reg.nr.: Non pertinente (polimero)	Alcoli, C11-13 ramificati, etossilati ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	<5%

(Contd. on page 3)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 2)

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Rescue workers must wear the protective equipment described in section 8.2 of this safety data sheet.
- **IF INHALATED:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If ingested do not induce vomiting, seek medical assistance showing the safety data sheet or the hazard label
- **4.2 Most important symptoms and effects, both acute and delayed** Eyes: irritation
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** None in particular
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus and appropriate protective clothing including gloves and eye / face protection.
See Section 8 for information on personal protection equipment.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
See Section 8 for information on personal protection equipment.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
You should follow the usual precautions for handling chemical products
Prevent formation of dust.
Avoid contact with eyes and skin.
- **Information about fire - and explosion protection:** Protect from heat.

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further data; see section 1.2.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

CAS: 497-19-8 sodium carbonate

Inhalative	Short term, local effect	10 mg/m ³ (general population)
	Long term (repeated)	10 mg/m ³ (general population)
	Long term, local effect	10 mg/m ³ (professional workers)

CAS: 15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

Dermal	Long term (repeated)	6.4 mg/kg (general population)
	Long term, local effect	12.8 mg/cm ² (professional workers)
Inhalative	Long term (repeated)	mg/m ³ (5)

CAS: 1344-09-8 Silicic acid, sodium salt

Dermal	Short term, systemic effect	1.59 mg/kg (professional workers)
Inhalative	Long term, systemic effect	1.38 mg/m ³ (general population)
		5.61 mg/m ³ (industry workers)

- **PNECs**

CAS: 15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

PNEC	0.035 mg/l (freshwater)	
	0.03 mg/l (intermittent releases)	
	16.24 mg/l (sewage treatment plant)	

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

The use of gloves is recommended as a preventive measure

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 4)

Neoprene gloves

Rubber gloves

PVC gloves

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Breakthrough time: > = 480 min - Material thickness: > = 0.7 mm

Breakthrough time: > = 60 min - Material thickness: > = 0.5 mm

Breakthrough time: > = 30 min - Material thickness: > = 0.2 mm

- **Eye/face protection**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Solid

- **Colour:**

White

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

Undetermined.

- **Flammability**

Product is not flammable.

- **Lower and upper explosion limit**

- **Lower:**

Not applicable (the product has no explosive properties).

- **Upper:**

Not applicable (the product has no explosive properties).

- **Flash point:**

Not applicable.

- **pH (10 g/l) at 20 °C**

11

- **Viscosity:**

- **Kinematic viscosity**

Not applicable.

- **Dynamic:**

Not applicable.

- **Solubility**

- **water:**

Soluble.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Vapour pressure:**

Not applicable.

- **Density and/or relative density**

- **Density:**

Not determined.

- **Relative density at 20 °C**

0.6 g/cm³

- **Vapour density**

Not applicable.

- **Particle characteristics**

See section 3.

- **9.2 Other information**

- **Appearance:**

- **Form:**

Powder

- **Important information on protection of health and environment, and on safety.**

- **Ignition temperature:**

Product is not selfigniting.

- **Explosive properties:**

Product does not present an explosion hazard.

(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 5)

· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Oxygen liberation from 60°C
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No hazardous reactions when stored and handled according to instructions
- **10.2 Chemical stability** The product is stable under normal conditions of use and storage
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Avoid sources of heat and moisture, avoid direct exposure to sunlight. The product is hygroscopic: exposed to humid air and temperatures above 40 °C it tends to pack.
The product is hygroscopic: when exposed to humid air and temperatures above 40°C it tends to pack up
- **10.5 Incompatible materials:** Avoid contact with acids and oxidants.
- **10.6 Hazardous decomposition products:**
No dangerous decomposition products known.
the release of Oxygen from 60°C and CO₂ from 400°C may present risks

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>3,833-4,388 mg/kg
------	------	--------------------

CAS: 497-19-8 sodium carbonate

Oral	LD50	2,800 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	2,300 mg/l (rat)

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 6)

CAS: 15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

Oral	LD50	1,034 mg/kg (ATE) 1,034 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

CAS: 68951-67-7 Alcohols, C14-15, ethoxylated

Oral	LD50	500 mg/kg (ATE)
------	------	-----------------

CAS: 7414-83-7 disodium dihydrogen (1-hydroxyethylidene)bisphosphonate

Oral	LD50	500 mg/kg (ATE)
------	------	-----------------

CAS: 1344-09-8 Silicic acid, sodium salt

Oral	LD50	1,300-2,200 mg/kg (rat)
------	------	-------------------------

CAS: 68439-54-3 Alcoli, C11-13 ramificati, etossilati

Oral	LD50	500 mg/kg (ATE) >300-2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **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.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-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**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****CAS: 497-19-8 sodium carbonate**

CL50	300 mg/l (fish) (96 h)
EC50	200 mg/l (daphnia) (48 h)
NOEC	560 mg/l (fish) (96 h)

CAS: 15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

CL50	70.7 mg/l (fish) (Esposizione 96 h)
EC50	8 mg/l (algae) (Esposizione 140 h) 4.9 mg/l (daphnia) (Esposizione 48 h)
NOEC	7.4 mg/l (fish) (Esposizione 96 h)

CAS: 68439-54-3 Alcoli, C11-13 ramificati, etossilati

CL50	>1-10 mg/l (fish) (LINEE GUIDA oecd 203 Esposizione 96 h)
EC50	>1-10 mg/l (algae) (Linee guida OECD TG 201 Esposizione 72 h) >1-10 mg/l (daphnia) (Linee guida OECD TG 202 Esposizione 48 h)

- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** Non significant accumulation in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 7)

- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Do not discard the product or its packaging. Do not empty into drains. Recycle the product. When recycling is not possible, dispose through an authorized company in compliance with the local or national regulations. The assignment of the waste code is the user's responsibility, after determining the properties of the waste and the process generating it and after discussing it with the authorities responsible for disposal.
- **Uncleaned packaging:**
- **Recommendation:**
Empty the containers before disposal. Do not reuse the emptied containers. Send the empty containers to recycling or to an authorized company in compliance with local and national regulations.
- **Recommended cleansing agents:** Water.

SECTION 14: Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Void |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | Void |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| <ul style="list-style-type: none"> · Transport/Additional information: | Not dangerous according to the above specifications. |
| <ul style="list-style-type: none"> · UN "Model Regulation": | Void |

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 8)

SECTION 15: Regulatory information

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

Safety data sheet prepared in accordance with Regulation 1907/2006/EC Article 31, Regulation (EU) No 878/2020 as subsequent amendments.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H413 May cause long lasting harmful effects to aquatic life.

· **Classification according to Regulation (EC) No 1272/2008**

As required by Regulation 1272/2008/CE art. 9, the classification of this compound is based on the calculation method taken from the data of the single substances therein and from the experimental data of this compound where available (viewable in sections 9, 11 and 12 in this document).

Procedure used for the classification of the mixture

Skin Irrit. 2, H315 - Calculation method

Eye Irrit. 2, H319 - Calculation method

STOT SE 3, H335 - Calculation method

· **Date of previous version:** 08.07.2024

· **Version number of previous version:** 4

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Ox. Sol. 2: Oxidizing solids – Category 2

(Contd. on page 10)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 08.07.2024

Version number 5 (replaces version 4)

Revision: 08.07.2024

Trade name: DETER SOFT

(Contd. of page 9)

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * **Data compared to the previous version altered.**

IE