

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

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

1.1 Product identifier

Trade name: **DETER BIANCO**

Article number: G11-008

UFI: VM30-60FN-700J-FTDG

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

Life cycle stages PW Widespread use by professional workers

Product category PC0 Other

Application of the substance / the mixture bleaching additive for washing machine

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.gbprodottichimici.it - E-mail gbm@prodottichimici.it

Further information obtainable from: info@gbprodottichimici.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



GHS02 flame

Self-heat. 1 H251 Self-heating: may catch fire.



GHS07

Eye Irrit. 2 H319 Causes serious eye 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



GHS02



GHS07

Signal word Danger

Hazard statements

H251 Self-heating: may catch fire.

H319 Causes serious eye irritation.

Precautionary statements

P235+P410 Keep cool. Protect from sunlight.

P280 Wear eye protection / face protection.

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

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

(Contd. on page 2)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 1)

P420 Store separately.

Additional information:

EUH031 Contact with acids liberates toxic gas.

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

optical brighteners

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 $\geq 0.1\%$.**vPvB:** According to the available data, the product does not contain vPvB substances in a proportion $\geq 0.1\%$.**Determination of endocrine-disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 7775-14-6

EINECS: 231-890-0

Index number: 016-028-00-1

Reg.nr.: 01-2119520510-57-xxxx

sodium dithionite

 Self-heat. 1, H251;  Acute Tox. 4, H302; Eye Irrit. 2, H319, EUH031

80-100%

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.**After skin contact:**

Rinse with warm water.

Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Call for a doctor immediately.

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**

If any symptoms appear and/or if in doubt, contact a physician and provide this MSDS.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:**

Do not use water jets that can cause the spread and extension of fire.

(Contd. on page 3)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 2)

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **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.

Mouth respiratory protective device.

· **Additional information**

Do not inhale gases resulting from explosions and fires. Cool containers with jets of water to prevent decomposition of the product and the development of substances potentially hazardous to health.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **For non-emergency personnel**

Provide adequate ventilation and move away from the danger area. For personal protection, see section 8.

· **For emergency responders**

The intervention personnel must wear appropriate personal protective equipment (overalls, gloves, goggles and dust mask). Keep non-emergency personnel away from the affected area.

· **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*

· **6.3 Methods and material for containment and cleaning up:**

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections**

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** *Avoid contact with eyes and skin.*

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Emergency cooling must be available in case of nearby fire.

· **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:** *Do not store together with acids.*

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** *No further data; see section 1.2.*

(Contd. on page 4)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 3)

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: 7775-14-6 sodium dithionite

Oral	Long term, systemic effect	7.9 mg/kg bw/day (general population)
Inhalative	Long term, systemic effect	61 mg/m ³ (general population)
		206 mg/m ³ (professional workers)

· **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:**

Avoid contact with the eyes.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required

· **Hand protection**

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Penetration time of glove material**

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

· **Eye/face protection**



Tightly sealed goggles

· **Environmental exposure controls** Observe safety measures related to the environment; refer to Section 6.2.

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

(Contd. on page 5)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 4)

· Melting point/freezing point:	Not relevant for product characterisation.
· Boiling point or initial boiling point and boiling range	Undetermined
· Flammability	May cause fire.
· 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
· Auto-ignition temperature:	Not applicable. The product has no flammable properties.
· Decomposition temperature:	Not determined as not relevant for product characterisation.
· pH (50 g/l) at 20 °C	7.5 - 8.5
· Viscosity:	
· Kinematic viscosity	Not applicable
· Dynamic:	Not applicable
· Solubility	
· water at 20 °C:	19 g/l Soluble.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure:	Not applicable
· Density and/or relative density	
· Density at 20 °C:	2.09 g/cm ³
· Relative density	Not determined
· 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:	Not determined
· Evaporation rate	Not applicable.

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 exposing the product to high temperatures. Keep the product away from open flames. Avoid humidity.
 Prevent moisture or water from penetrating the containers.
 Avoid exposing the product to high temperatures.
 Avoid contact with acids and oxidising agents
- **10.5 Incompatible materials:** Avoid contact with acids and oxidants.
- **10.6 Hazardous decomposition products:**
 When heated or in case of fire can release gases and vapors which are dangerous to health.

(Contd. on page 6)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 5)

carbon monoxide, carbon dioxide
 Nitrogen oxides (NOx)
 No dangerous decomposition products known.

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:**

CAS: 7775-14-6 sodium dithionite

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 7775-14-6 sodium dithionite

EC50	206 mg/l (algae) (durata 72 h)
	98.3 mg/l (daphnia) (durata 48 h)
	62.3 mg/l (fish) (durata 96 h)

- **12.2 Persistence and degradability**

The product does not contain surfactants. The organic matter can be eliminated in the normal waste water treatment plants.

- **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:**

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

- **vPvB:** According to the available data, the product does not contain vPvB substances in a proportion $\geq 0.1\%$.

(Contd. on page 7)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 6)

· 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

· 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**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. 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, if necessary together with cleansing agents.

Water.

SECTION 14: Transport information

· 14.1 UN number or ID number**· ADR, IMDG, IATA**

UN1384

· 14.2 UN proper shipping name**· ADR**

1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

· IMDG, IATA

SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

· 14.3 Transport hazard class(es)**· ADR, IMDG, IATA****· Class**

4.2 Substances liable to spontaneous combustion.

· Label

4.2

· 14.4 Packing group**· ADR, IMDG, IATA**

II

(Contd. on page 8)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 7)

· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
· 14.6 Special precautions for user	
· Hazard identification number (Kemler code):	Warning: Substances liable to spontaneous combustion. 40
· EMS Number:	F-A,S-J
· Stowage Category	E
· Handling Code	H1 Keep as dry as reasonably practicable
· 14.7 Maritime transport in bulk according to IMO instruments	
Not applicable	
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II

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.

(Contd. on page 9)

Safety data sheet

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

Printing date 22.04.2026

Version number 5 (replaces version 4)

Revision: 22.04.2026

Trade name: DETER BIANCO

(Contd. of page 8)

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**

H251 Self-heating: may catch fire.
 H302 Harmful if swallowed.
 H319 Causes serious eye irritation.
 EUH031 Contact with acids liberates toxic gas.

- **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

Eye Irrit. 2, H319 - Calculation method

- **Date of previous version: 22.04.2026**

- **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Self-heat. 1: Self-heating substances and mixtures – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- **Sources**

-Safety data sheets and data sheets of raw material suppliers.

-ECHA (EU), registered substances database.

-ECHA (EU), C&L inventory database.

-ECHA (EU), SVHC candidate substances.

-IARC (F), International Agency for Research on Cancer.

-ISS (I), Istituto Superiore di Sanità, Hazardous Substances Database.

-ACGIH (USA), American Conference of Governmental Industrial Hygienists.

-INRS (F), Institut National de Recherche et de Sécurité : Les Mélanges Explosifs.

-Ministry of the Environment (I), Ecotoxicological database on chemicals.

-IFA (D), Institut für Arbeitsschutz, GESTIS database on hazardous substances.

-ILO, International Labour Organization, International Chemical Safety Cards database.

-OECD, Organisation for Economic Co-operation and Development, eChemPortal database.

-WHO, World Health Organization, Chemical Safety Information database. -TOXNET (USA), Toxicology Data Network database.

-ATSDRC (USA), Agency for Toxic Substances & Disease Registry database.

-SCOEL Opinion for crystalline free silica (respirable dust), 2003.

-SCOEL Opinion for the presence of hexavalent chromium in cement, 2002.

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