

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 05.08.2016

Version number 4

Revision: 05.08.2016

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

- **1.1 Product identifier**
- **Trade name:** DETER BIANCO
- **Article number:** NADB1
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**  
PC23 Leather tanning, dye, finishing, impregnation and care products  
PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
- **Application of the substance / the mixture** bleaching additive for washing machine
- **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**



GHS02 flame

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **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 GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
sodium dithionite  
sodium metabisulphite

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**· Hazard statements**

H251 Self-heating: may catch fire.  
 H302 Harmful if swallowed.  
 H318 Causes serious eye damage.

**· Precautionary statements**

P280 Wear eye protection / face protection.  
 P235+P410 Keep cool. Protect from sunlight.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P420 Store away from other materials.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· 2.3 Other hazards****· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**· 3.2 Chemical characterisation: Mixtures**

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

**· Dangerous components:**

CAS: 7775-14-6 EINECS: 231-890-0 Reg.nr.: 01-2119520510-57-0013	sodium dithionite ⚠ Self-heat. 1, H251; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	70 - 100%
CAS: 7681-57-4 EINECS: 231-673-0 Reg.nr.: 01-2119531326-45	sodium metabisulphite ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	5 - 15%
CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate ⚠ Eye Irrit. 2, H319	2 - 5%

**· Regulation (EC) No 648/2004 on detergents / Labelling for contents**

optical brighteners

- **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:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** 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. If symptoms persist, consult a doctor.

**· After swallowing:**

Rinse your mouth well  
 Call for a doctor immediately.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Use to respiratory protection  
Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 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** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **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 relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

<b>7681-57-4 sodium metabisulphite</b>
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WEL	Long-term value: 5 mg/m <sup>3</sup>
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- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.

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*Immediately remove all soiled and contaminated clothing*

*Wash hands before breaks and at the end of work.*

*Avoid contact with the eyes.*

- **Respiratory protection:** Not required.

- **Protection of hands:**

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

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

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

- **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

- **General Information**

- **Appearance:**

**Form:** Powder

**Colour:** White

- **Odour:** Pungent

- **Odour threshold:** Not determined.

- **pH-value (50 g/l) at 20 °C:** 7.5 - 8.5

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** May cause fire.

- **Ignition temperature:**

**Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Not determined.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapour pressure:** Not applicable.

- **Density at 20 °C:** 0.9 - 1.1 g/cm<sup>3</sup>

- **Relative density** Not determined.

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· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water at 20 °C:</b>	19 g/l
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **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**  
The product is normally supplied in a stabilized form. Avoid excessive heat for long periods of time, the product can polymerize. Avoid heat, flames and other sources of ignition excessive variations in temperature, below 0 °C and above 45 °C
- **10.5 Incompatible materials:** Avoid contact with acids and oxidants.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

· **Acute toxicity**  
Harmful if swallowed.

- **LD/LC50 values relevant for classification:**

#### 7775-14-6 sodium dithionite

Oral	LD50	2500 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h	> 5.5 mg/l (rat)

#### 7681-57-4 sodium metabisulphite

Oral	LD50	3200 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	> 5.5 mg/l (rat)

#### 497-19-8 sodium carbonate

Oral	LD50	4090 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

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- **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.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · **Aquatic toxicity:**

##### **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)

##### **7681-57-4 sodium metabisulphite**

EC50	90 mg/kg (daphnia)
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- **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.

##### · **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.

##### · **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

##### · **12.6 Other adverse effects** No further relevant information available.

### 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.

##### · **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

##### · **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.  
Water.

### SECTION 14: Transport information

#### · 14.1 UN-Number

##### · **ADR, IMDG, IATA**

UN1384

#### · 14.2 UN proper shipping name

##### · **ADR**

1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

##### · **IMDG**

SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

##### · **IATA**

Sodium dithionite

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- **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

- **14.5 Environmental hazards:**

- **Marine pollutant:** Yes

- **14.6 Special precautions for user**

- **Danger code (Kemler):** 40
- **EMS Number:** F-A,S-J
- **Stowage Category** E
- **Handling Code** H1 Keep as dry as reasonably practicable

*Warning: Substances liable to spontaneous combustion.*

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

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**

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** 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.*

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not*

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**· Relevant phrases***H251 Self-heating: may catch fire.**H302 Harmful if swallowed.**H318 Causes serious eye damage.**H319 Causes serious eye irritation.***· Contact: ---****· Abbreviations and acronyms:***ADR: Accord européen sur le transport 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)**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 Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

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