

# Safety data sheet

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

Printing date 26.07.2023

Version number 1

Revision: 26.07.2023

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

- **1.1 Product identifier**
- **Trade name:** Sodium hydrosulphite
- **Chemical Identification:** Sodium Dithionite
- **Article number:** 6021
- **CAS Number:**  
7775-14-6
- **EC number:**  
231-890-0
- **Registration number** 01-2119520510-57
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Reducing agent/ Deoxidiser  
Textile industry  
Bleach medium
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Möller Chemie GmbH & Co. KG  
Bürgerkamp 1  
D-48565 Steinfurt  
Tel.: 02551/9340-0  
Fax: 02551/9340-60
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

### 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

Acute Tox. 4 H302 Harmful if swallowed.

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



GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**  
H251 Self-heating: may catch fire.  
H302 Harmful if swallowed.
- **Precautionary statements**  
P235 Keep cool.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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**P301+P312 IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell.

**P413** Store bulk masses greater than 0,5 kg at temperatures not exceeding 50°C.

**P420** Store separately.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

**EUH031** Contact with acids liberates toxic gas.

· **2.3 Other hazards**

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

· **Results of PBT and vPvB assessment**

· **PBT:**

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· **vPvB:**

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

### SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

7775-14-6 Sodium hydrosulfite

Pure substance with admixture of additive:

CAS No.: 497-19-8 sodium carbonate < 5 %

EINECS No.: 207-838-8, EG-VO 1272/2008: H319,

REACH registration number: 01-2119485498-19

· **Identification number(s)**

· **EC number:** 231-890-0

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove any existing contact lenses if possible. Continue rinsing.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **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:** Excess water, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>)

· **For safety reasons unsuitable extinguishing agents:** Spray water, water mist

· **5.2 Special hazards arising from the substance or mixture** Self-heating; can catch fire

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- **5.3 Advice for firefighters**  
Cool containers with water spray.  
Do not inhale explosion gases and fumes  
Co-ordinate fire-fighting measures to the fire surroundings.  
Do not let fire-fighting water get into the canals and bodies of water.  
Collect contaminated fire fighting water separately.  
Fight fire with normal precautions from a reasonable distance.
- **Protective equipment:**  
Chemical protective clothing, self-contained breathing apparatus (autonomous breathing apparatus, EN 133)

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with eyes and skin  
Ensure adequate ventilation  
Do not breathe dust.  
Avoid formation of dust.  
Keep away from ignition sources.  
Keep away from flammable materials.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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**  
Store in a cool, dry place in tightly closed containers.  
Ensure good ventilation / exhaustion at the workplace.  
Avoid aerosol formation.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Any ingress of moisture must be prevented.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep container tightly closed Keep us in a cool, well-ventilated place.  
Protect from moisture.
- **Information about storage in one common storage facility:**  
Store away from oxidising agents.  
Store away from water.  
Store away from acids.  
Protect from heat.  
Store separately from oxidising and highly flammable substances.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store receptacle in a well ventilated area.
- **Storage class:** 4.2 Self-igniting substances
- **7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

DE sulfur dioxide CAS: 7446-09-5 MAK SMW 1 ppm, SMW 2.7 mg / m<sup>3</sup>, KZW 1 ppm, KZW 2.7 mg / m<sup>3</sup>, DFG  
DE sulfur dioxide CAS: 7446-09-5 AGW SMW 1 ppm, SMW 2.5 mg / m<sup>3</sup>, KZW 1 ppm, KZW 2.5 mg / m<sup>3</sup>,  
TRGS 900

EU sulfur dioxide CAS: 7446-09-5 IOELV SMW 0.5 ppm, SMW 1.3 mg / m<sup>3</sup>, KZW 1 ppm, KZW 2.7 mg / m<sup>3</sup>,  
2017/164 / EU

##### Note

KZW short-term value (limit value for short-term exposure): limit value that should not be exceeded, based on  
a duration of 15 minutes (unless otherwise specified)

SMW shift average (limit value for long-term exposure): Time-weighted average, measured or calculated for  
a reference period of eight hours (unless otherwise stated)

##### · **DNELs**

Worker (industry) - human, inhalatory - chronic - systemic effects - 206 mg/m<sup>3</sup>

Relevant DNELs of components of the mixture:

Sodium carbonate, CAS no. : 497-19-8

Worker (industry) - human, inhalatory - chronic - local effects - 10 mg/m<sup>3</sup>

##### · **PNECs**

Fresh water 1 mg/l

Sea water 0.1 mg/l

Sewage treatment plant (STP) 8.98 mg/l

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

#### · 8.2 Exposure controls

##### · **Appropriate engineering controls** No further data; see item 7.

##### · **Individual protection measures, such as personal protective equipment**

##### · **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

##### · **Respiratory protection:** Not required.

##### · **Hand protection**

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.

NBR: acrylonitrile butadiene rubber

PVC: polyvinyl chloride

IIR: butyl rubber, isobutene-isoprene rubber

##### · **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

##### · **Body protection:** Protective work clothing

##### · **Environmental exposure controls** To avoid environmental contamination use a proper container

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### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· Physical state	Solid
· Colour:	White
· Odour:	Sulfurous
· Melting point/freezing point:	300 °C
· Boiling point or initial boiling point and boiling range	No data available
· Flammability	Self-heating mixture according to GHS criteria
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	not applicable
· Decomposition temperature:	52 °C
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water at 20 °C:	225 g/l
· Partition coefficient n-octanol/water (log value)	-4.7 log KOW
· Vapour pressure:	< 0.01 hPa
· Density and/or relative density	
· Density at 20 °C:	2.38 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not applicable.
· Particle characteristics	See item 3.

#### · 9.2 Other information

· Appearance:	
· Form:	Solid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	> 80 °C (EU Method A.16 ECHA)
· Explosive properties:	Product is not explosive. Formation of explosive dust / air mixtures possible.
· Molecular weight	174.11 g/mol
· Change in condition	
· Softening point/range	
· Oxidising properties	not classified as oxidizing
· 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	Self-heating: may catch fire.
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void

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· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

· **10.1 Reactivity**

The mixture contains reactive substance (s).

Self-heating property.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

When heated:

Risk of ignition, risk of self-ignition

· **10.3 Possibility of hazardous reactions** Develops toxic gases on contact with acids.

· **10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other types of ignition sources.

Do not smoke.

UV radiation / sunlight.

Protect from moisture

· **10.5 Incompatible materials:**

oxidizing agent

Acids.

water

Release of toxic materials with: acids

· **10.6 Hazardous decomposition products:** Hazardous combustion products: sulfur dioxide (SO<sub>2</sub>).

### SECTION 11: Toxicological information

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

· **Acute toxicity** Harmful if swallowed.

· **Specific symptoms in biological assay:**

Acute toxicity:

LD50, oral ~ 2,500 mg / kg rat ECHA

LC50, inhalation, dust / mist: > 5.5 mg / l / 4h rat ECHA data on similar substances were used

LD50, dermal > 2,000 mg / kg rat OECD Guideline ECHA 402 data on similar substances were used

Acute toxicity of components of the mixture:

Sodium carbonate 497-19-8: LD50, oral 2,800 mg / kg rat ECHA

Sodium carbonate 497-19-8: LD50, dermal > 2,000 mg / kg rabbit EPA 16 CFR 1500.40 ECHA

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **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** Substance is not listed.

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### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
 LC50 62.3 mg / l golden orfe (*Leuciscus idus*) ECHA 96 h  
 EC50 98.31 mg / l *Daphnia magna* ECHA 48 h  
 ErC50 206.2 mg / l algae (*Desmodesmus subspicatus*) ECHA 72 h  
 (Acute) aquatic toxicity of components of the mixture:  
 Sodium carbonate 497-19-8: LC50 300 mg / l blue sunfish (*Lepomis macrochirus*) ECHA 96 h  
 Sodium carbonate 497-19-8: LC50 740 mg / l Koboldkärpfling (*Gambusia affinis*) ECHA 96 h  
 Sodium carbonate 497-19-8: EC50 200 - 227 mg / l *Daphnia* ECHA 48 h  
 (Chronic) aquatic toxicity: NOEC 316 mg / l zebrafish (*Danio rerio*) OECD Guideline 210 ECHA data on similar substances were used 34 d
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The product is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** The product is not considered to be persistent or very bioaccumulative (vPvB).
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **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**  
 This product and its container must be disposed of as hazardous waste.  
 Do not empty into drains.
- **Uncleaned packaging:**
- **Recommendation:**  
 Contaminated packaging should be treated like the substance.  
 Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | UN1384  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>  | 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE)<br>SODIUM DITHIONITE (SODIUM HYDROSULPHITE) |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  |   |
| <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul> | 4.2 Substances liable to spontaneous combustion.  |

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· <b>Label</b>	4.2
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b>	Warning: Substances liable to spontaneous combustion. 40 F-A,S-J
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	0 Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	0 Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· <b>UN "Model Regulation":</b>	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** Substance is not listed.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.

- **Department issuing SDS:** Product safety department
- **Contact:** Mrs. Steyer
- **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

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CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
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

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