

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form	: Substance
	:
EC index no	: 016-028-00-1
EC no	: 231-890-0
CAS No	: 7775-14-6
Product code	: 05865
Chemical structure	: $\text{Na}_2\text{S}_2\text{O}_4$
Synonyms	: Sodium hypodisulfite

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Self-Heating Substances H251
and Mixtures, Category 1
Acute toxicity (oral), H302
Category 4

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22

R7

R31

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H251 - Self-heating: may catch fire
H302 - Harmful if swallowed

Precautionary statements (CLP) : P235 - Keep cool
P410 - Protect from sunlight

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : SODIUM DITHIONITE Extra pure

CAS No : 7775-14-6

EC no : 231-890-0

EC index no : 016-028-00-1

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Rinse immediately with plenty of water.
- First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Self-heating: may catch fire.
- Explosion hazard : Heating may cause an explosion.

5.3. Advice for firefighters

- Firefighting instructions : Fight fire remotely due to the risk of explosion.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No naked lights. No smoking.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Hazardous waste due to potential risk of explosion.
- Precautions for safe handling : Take any precaution to avoid mixing with combustibles/...
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep in fireproof place. Keep container tightly closed. Store in a dry place. Keep cool. Protect from sunlight.
- Incompatible materials : Heat sources. combustible materials.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Molecular mass	: 174.11 g/mol
Colour	: White crystalline.
Odour	: distinct sulfur dioxide odor.
Odour threshold	: No data available
pH	: 7 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 300 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 3.6
Relative density	: No data available
Density	: 2.19 g/cm ³
Solubility	: Water: Soluble in water
Log Pow	: -4.7

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Self-heating: may catch fire.

10.3. Possibility of hazardous reactions

Highly reactive material. Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Direct sunlight. Heat. Sparks. Overheating. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Skin corrosion/irritation : Not classified
pH: 7 - 9

Serious eye damage/irritation : Not classified
pH: 7 - 9

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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Potential adverse human health effects and symptoms : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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Log Pow	-4.7
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1384
UN-No. (IMDG)	: 1384
UN-No.(IATA)	: 1384
UN-No.(ADN)	: 1384
UN-No. (RID)	: 1384

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)
Proper Shipping Name (IMDG)	: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)
Proper Shipping Name (IATA)	: SODIUM DITHIONITE
Proper Shipping Name (ADN)	: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)
Proper Shipping Name (RID)	: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

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Transport document description (ADR)	: UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II, (D/E)
Transport document description (IMDG)	: UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II
Transport document description (IATA)	: UN 1384 SODIUM DITHIONITE, 4.2, II
Transport document description (ADN)	: UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II
Transport document description (RID)	: UN 1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE), 4.2, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 4.2

Danger labels (ADR) : 4.2



IMDG

Transport hazard class(es) (IMDG) : 4.2

Danger labels (IMDG) : 4.2



IATA

Transport hazard class(es) (IATA) : 4.2

Hazard labels (IATA) : 4.2



ADN

Transport hazard class(es) (ADN) : 4.2

Danger labels (ADN) : 4.2



RID

Transport hazard class(es) (RID) : 4.2

Danger labels (RID) : 4.2



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14.4. Packing group

Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: S4
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P410, IBC06
Mixed packing provisions (ADR)	: MP14
Portable tank and bulk container instructions (ADR)	: T3
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V1
Hazard identification number (Kemler No.)	: 40
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: 1S

- Transport by sea

Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P410
Packing provisions (IMDG)	: PP31
IBC packing instructions (IMDG)	: IBC06
IBC special provisions (IMDG)	: B2
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-J
Stowage category (IMDG)	: E
Stowage and handling (IMDG)	: H1
MFAG-No	: 135

- Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Forbidden

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PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 467
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 470
CAO max net quantity (IATA)	: 50kg
ERG code (IATA)	: 4L

- Inland waterway transport

Classification code (ADN)	: S4
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: S4
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P410, IBC06
Mixed packing provisions (RID)	: MP14
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W1
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 40

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SODIUM DITHIONITE Extra pure is not on the REACH Candidate List

SODIUM DITHIONITE Extra pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 1170)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1
H251	Self-heating: may catch fire
H302	Harmful if swallowed
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R7	May cause fire
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product