



SAFETY DATA SHEET

SODIUM DITHIONITE

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Revision No: 1

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

1.1. Product identifier

Product name: SODIUM DITHIONITE

CAS number: 7775-14-6

EINECS number: 231-890-0

Index number: 016-028-00-1

Product code: GPC9937

Synonyms: SODIUM HYDROSULPHITE

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

1.3. Details of the supplier of the safety data sheet

Company name: Atom Scientific Ltd

Unit 6A

Arrow Trading Estate

Audenshaw

Manchester

M34 5LR

United Kingdom

Tel: 0161 320 0022

Fax: 01704 337 167

Email: enquiries@atomscientific.com

1.4. Emergency telephone number

Emergency tel: 0161 320 0022

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Self-heat. 1: H251; Acute Tox. 4: H302; -: EUH031

Classification under CHIP: O: R7; Xn: R22; -: R31

Most important adverse effects: Self-heating; may catch fire. Harmful if swallowed. Contact with acids liberates toxic gas.

2.2. Label elements

Label elements under CLP:

Hazard statements: H251: Self-heating: may catch fire.

H302: Harmful if swallowed.

EUH031: Contact with acids liberates toxic gas.

Signal words: Danger

Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark

[cont...]

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Precautionary statements: P235+410: Keep cool. Protect from sunlight.

2.3. Other hazards

Other hazards: May cause fire. Harmful if swallowed. Contact with acids liberates toxic gas.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: SODIUM DITHIONITE

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: May be harmful if absorbed through the skin. There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: Harmful if swallowed.

Inhalation: May be harmful if inhaled. There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry Powder

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of sulphur oxides. In combustion emits toxic fumes of Sodium Oxides

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Do not create dust. Avoid breathing dust. Wear respiratory protection if required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Sweep up and shovel without creating dust. Collect with an electrically protected vacuum cleaner. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not flush with water.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Avoid the formation or spread of mists in the air. Ensure there is exhaust ventilation of the area. Keep away from heat and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Never allow product to get into contact with water during storage. Do not store near acids

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is exhaust ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter. Particle filter class P3S (EN143). Particle filter class P3SL (EN143).

Hand protection: Protective gloves.

Eye protection: Face-shield. Safety glasses.

Skin protection: Complete suit protecting against chemicals.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder

Colour: White

Melting point/range°C: 300

Part.coeff. n-octanol/water: <4.7

Autoflammability°C: Self Heating Cat.1

Relative density: 2.5g/cm³@20C

pH: 7-9@ 50g/l@20C

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Do not allow water to enter the container because of violent reaction Sources of ignition.
Moisture Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Acids. Water.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data

Symptoms / routes of exposure

Skin contact: May be harmful if absorbed through the skin There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: Harmful if swallowed.

[cont...]

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Inhalation: May be harmful if inhaled There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Golden Orfe	96H LC50	10-100	mg/l
Water flea	48H EC50	10-100	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Burn in a chemical incinerator equipped with an afterburner and scrubber. Exert care in igniting as the material is highly flammable

Disposal of packaging: Burn in a chemical incinerator equipped with afterburners and scrubbers. Exert care in lighting as material is highly flammable.

Section 14: Transport information

14.1. UN number

UN number: UN1384

14.2. UN proper shipping name

Shipping name: SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

14.3. Transport hazard class(es)

Transport class: 4.2

14.4. Packing group

Packing group: II

[cont...]

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14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Phrases used in s.2 and 3: EUH031: Contact with acids liberates toxic gas.

H251: Self-heating: may catch fire.

H302: Harmful if swallowed.

R7: May cause fire.

R22: Harmful if swallowed.

R31: Contact with acids liberates toxic gas.