


1. Identification

Product Code 1111013

Product Name **SODIUM DITHIONITE pure**

Molecular Formula **Na₂S₂O₄ =174.10**

CAS Number 7775-14-6

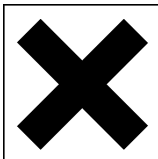
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2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Sodium dithionite	7775-14-6	231-890-0	87.0%	Xn : R7,R22,R31	N/A
Sodium carbonate	497-19-8	207-838-8	13.0%	Xn : R36	N/A

3. Hazards Identification

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

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. If exposure to toxic fumes has occurred OBTAIN IMMEDIATE MEDICAL ATTENTION.

Ingestion If conscious wash out mouth thoroughly with water and give water or milk to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Large amounts of water added quickly.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection	Avoid breathing dust-wear respiratory protective equipment. Ensure no contact with water, acids or other aqueous solutions is possible. However if contact with acid is possible, use full protective clothing and breathing apparatus.
Environmental	Presents no major environmental hazard.
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage . Protect against moisture to prevent decomposition and corrosion.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	White free flowing granular material.
Odour	Organic sulphur odour.
pH	6 (1 % solution)
Boiling point	Not available
Melting point	Not available
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	1.0000 °C
Water Solubility	20%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Decomposes on exposure to moist air or water and at temperatures above 60C
Materials to Avoid	Reacts with acids liberating very toxic fumes of sulphur dioxide. Strong oxidising agents. Combustible materials.
Hazardous Decomposition Products	Toxic fumes of sulphur dioxide.

11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	Contact with the solid or dust may be irritating to the skin.
LD50 Skin	Rabbit >2000mg/Kg
Ingest	Harmful if swallowed. Ingestion may result in formation of toxic sulphur dioxide.
LD50 Ingest	Rat 1700mg/Kg
Inhalation	Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Major hazard is through inhalation of sulphur dioxide fumes which produce a hard uncontrollable cough. Excessive exposure can lead to unconsciousness and may prove fatal.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

12. Ecological

COD=210mg/l O₂/g: Aquatic toxicity 96hr- EC50 Bacteria 87mg/l: LC50 Fish (Leuciscus idus) 46-68mg/l Daphnia magna 48hr EC50 = 98mg/l, 24hr = 120mg/l.

13. Disposal Considerations

Disposal Methods	Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Contaminated Packaging	Wash out containers with water.

14. Transport Information

Proper Shipping Name	Sodium Dithionite
UN Number	1384
UN Classification	4.2 Spontaneously combustable
Subsidiary Risk	None
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	40

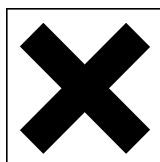


15. Regulatory Information

Labelling	Harmful.
Classification	

Label Symbols

Xn



Risk & safety Phrases May cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Keep out of reach of children. Keep container tightly closed and dry. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. In case of fire use dry powder extinguisher - Never use water.

EEC Number 231-890-0

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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