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SAFETY DATA SHEET (SDS) - SODIUM HYDROSULFITE

SECTION 1: IDENTIFICATION

Product Name	Sodium Hydrosulfite (Sodium Dithionite)
CAS Number	7775-14-6
EC Number	231-890-0
Molecular Formula	Na ₂ S ₂ O ₄
Recommended Use	Reducing agent for textile dyeing, pulp bleaching, mineral processing.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

- Self-heating substances and mixtures (Category 1)
- Acute toxicity, Oral (Category 4)
- Serious eye damage/eye irritation (Category 2A)
- Chronic aquatic toxicity (Category 3)

Signal Word: DANGER

Hazard Statements:

H251: Self-heating; may catch fire. H302: Harmful if swallowed. H319: Causes serious eye irritation. EUH031: Contact with acids liberates toxic gas (SO₂).

SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, lifting eyelids. Get immediate medical aid.

Ingestion: Rinse mouth with water. Seek medical attention immediately. Do NOT induce vomiting.

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: USE DRY SAND, DRY POWDER, OR GRAPHITE.

***** DO NOT USE WATER, CO₂, OR FOAM. *****

Contact with water produces flammable gases and extreme heat, which may lead to spontaneous combustion.

SECTION 7: HANDLING AND STORAGE

Handling: Use explosion-proof equipment. Avoid dust generation. Ensure adequate ventilation. Keep away from heat, sparks, and open flame.

Storage: Store in a cool, dry, well-ventilated area. Keep container hermetically sealed. **Temperature Control: Keep below 30°C.** Store away from acids, oxidizers, and moisture.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Crystalline Powder
Color	White
Odor	Slightly sulfurous (like Sulfur Dioxide)
pH (1% solution)	8.0 - 9.5
Melting Point	52°C (Decomposes)
Bulk Density	Approx. 1.25 g/cm ³
Solubility in Water	241 g/L at 20°C (Slow decomposition)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Strong reducing agent. Reacts violently with oxidizers.

Stability: Unstable when exposed to air and moisture. Decomposition accelerates above 50°C.

Conditions to Avoid: Moisture, heat, sparks, friction, and impact.

Hazardous Decomposition: Sulfur dioxide, Sodium oxides, Hydrogen sulfide.

SECTION 14: TRANSPORT INFORMATION

UN Number	1384
Proper Shipping Name	SODIUM DITHIONITE (SODIUM HYDROSULFITE)
Hazard Class	4.2 (Substances liable to spontaneous combustion)
Packing Group	II
Marine Pollutant	No