

MATERIAL SAFETY DATA SHEET

Conforms to ANSI Z400.1 and is in compliance with 29 CFR 1910

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Section 1: Product Identification

Product name:

SICKLEDEX[®] Solubility Powder

Section 2: Composition / Information on Ingredient

Substance Name	%	CAS #	SARA 313	Formula	Synonyms
Sodium Hydrosulfite	84	7775-14-6	No	Na2O4S2	Sodium Dithionite
Saponin	< 2	8047-15-2	No	N/A	N/A

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Harmful.

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

Exothermic in contact with water.

NFPA RATING

Health: 2
Flammability: 3
Reactivity: 2

Section 4: First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water; provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5: Fire Fighting Measures

Flammable Hazards	Yes
Explosion Hazards	May decompose on exposure to air and moisture
Explosion Data	Dust potential: this material, like most materials in powder form, is capable of creating a dust explosion.
Conditions of Flammability	Addition of small amounts of water or temperatures above 100°C may cause self ignition.
Flash Point	N/A
Autoignition Temp	> 200°C
Flammability	N/A
Extinguishing Media	Suitable: Dry chemical powder.
Firefighting	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable solid. Emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Spill clean-up procedure:

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

PPE needed for clean up:

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up:

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling	User exposure: Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid prolonged or repeated exposure. Handle under nitrogen.
Storage	Suitable: Keep container closed. Keep away from heat, sparks, and open flame. Store in a cool dry place. Handle and store under nitrogen.
Incompatible Materials	Do not allow contact with water. Avoid contact with acid.
Special Requirements	Air sensitive. Heat and moisture sensitive.

Section 8: Exposure Control and Personal Protection Equipment (PPE)

ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

PPE:

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use a full-faced particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-faced supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance Physical State: Solid
 Color: White
 Form: Powder

Section 10: Stability and Reactivity

STABILITY: Stable

Conditions of Instability:

Moisture sensitive. May decompose on exposure to air and moisture.

Conditions to Avoid:

Do not allow water to enter container because of violent reaction. Air, moisture, heat.

Materials to Avoid:

Strong oxidizing agents, acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Sulfur oxides, Sodium/sodium oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11: Toxicological Properties

ROUTE OF EXPOSURE

Skin Contact:	May cause skin irritation
Skin Absorption:	May be harmful if absorbed through the skin
Eye Contact:	May cause eye irritation
Inhalation:	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion:	Harmful if swallowed

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

ACUTE ECOTOXICITY TESTS

Test Type	LC50 Fish
Species:	Leuciscus idus
Time:	96 h
Value	10.0 - 100.0 mg/L

Test Type	EC50 Daphnia
Species:	Daphnia magna
Time:	48 h
Value	10.0 - 100.0 mg/L

Test Type	IC50 Algae
Time:	72 h
Value	> 100 mg/L

Section 13: Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an after burner and scrubber, but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

DOT

Proper Shipping Name: Sodium dithionite (or) Sodium hydrosulfite
UN#: 1384
Class: 4.2
Packing Group: II
Hazard Label: Spontaneously combustible

IATA

Proper Shipping Name: SODIUM DITHIONITE
IATA UN Number: 1384
Hazard Class: 4.2
Packing Group: II

Section 15: Regulatory Information

EU DIRECTIVE CLASSIFICATION

Symbol of Danger: Xn
Indication of danger: Harmful
R: 7-22-31
Risk Statements: May cause fire. Harmful if swallowed. Contact with acids liberates toxic gas.
S: 7/8-26-28-43
Safety Statements: 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 soap-suds. In case of fire, use dry powder. Never use water.

US CLASSIFICATION AND LABEL TEST

Indication of Danger: Harmful
Risk Statements: May cause fire. Harmful if swallowed. Contact with water liberates toxic gas. **Contact with acids liberates toxic gas.**
Safety Statements: 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 soap-suds. In case of fire, use dry powder. Never use water. In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).
US Statements: Exothermic in contact with water

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16: Other

Streck provides no warranties, either express or implied. It assumes no responsibility for the accuracy or completeness of this material safety data sheet.