



255 Norman.
Lachine (Montreal), Que
H8R 1A3

Material Safety Data Sheet

EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)
(CAN) CANUTEC : 1(613) 996-6666 (24hrs)
(USA) Anachemia : 1(518) 297-4444
(CAN) Anachemia : 1(514) 489-5711

| WHMIS | Protective Clothing | TDG Road/Rail |
|-------------------------|---------------------|--------------------------------------|
| WHMIS CLASS: B-6 F D-2B | | TDG CLASS: 4.2 PIN: UN1384 PG: II |
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Section I. Product Identification and Uses

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|-------------------------|--|-----------------------|----------------|
| Product name | SODIUM HYDROSULFITE | CI# | Not available. |
| Chemical formula | Na ₂ S ₂ O ₄ | CAS# | 7775-14-6 |
| Synonyms | D-Ox, Dithionous acid disodium salt, Hydrolin, Sodium dithionite, Sodium sulfoxlate, Virchem, Virtex cc, AC-8366T, 83030 | Code | AC-8366T |
| Supplier | Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3 | Formula weight | 174.10 |
| | | Supersedes | |
| Material uses | For laboratory use only. | | |

Section II. Ingredients

| Name | CAS # | % | TLV |
|------------------------|-----------|--------|--------------------------|
| 1) SODIUM HYDROSULFITE | 7775-14-6 | 60-100 | Not established by ACGIH |

Toxicity values of the hazardous ingredients SODIUM HYDROSULFITE:
LD50: Not available.
LC50: Not available.

Section III. Physical Data

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| Physical state and appearance / Odor | Solid. (White powder. Sulfurous odor.) |
| pH (1% soln/water) | Not available. |
| Odor threshold | Not available. |
| Percent volatile | 0% at 21°C |
| Freezing point | Decomposes. |
| Boiling point | Not applicable. |
| Specific gravity | 2.2 (Water = 1) |
| Vapor density | Not applicable. |
| Vapor pressure | Not applicable. |
| Water/oil dist. coeff. | Not applicable. |
| Evaporation rate | Not applicable. |
| Solubility | Soluble in cold water. |

Section IV. Fire and Explosion Data

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|--------------------------------------|--|
| Flash point | Not available. |
| Flammable limits | Not available. |
| Auto-ignition temperature | Not available. |
| Fire degradation products | Oxides of sodium and sulfur. |
| Fire extinguishing procedures | Use flooding quantities of water. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water until well after fire is out. |
| Fire and Explosion Hazards | Flammable solid! Contributes to combustion of other materials. Material can spontaneously combust. Small amounts of water or contact with highly humid air can cause fire or ignite nearby combustible materials. Contact with oxidizing agents may cause explosion and/or fire. Container explosion may occur under fire conditions or when heated. Contact with acids liberates very toxic gas. Emits toxic fumes under fire conditions. Oxidizes on contact with moisture with development of heat (up to 300°C), which may lead to auto-ignition, often only after many hours. Spread material if possible before applying copious amounts of water. |

Section V. Toxicological Properties

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|----------------------------------|--|
| Routes of entry | Inhalation and ingestion. Skin contact. Eye contact. |
| Effects of Acute Exposure | Harmful by inhalation, in contact with skin and if swallowed. Irritant. |
| Eye | Causes irritation. May cause severe burns and loss of vision. |
| Skin | Causes skin irritation. May cause burns. |
| Inhalation | Material is irritating to mucous membranes and upper respiratory tract. Headache, nausea, vomiting. May cause delayed lung injury. |
| Ingestion | May cause burns to mouth, throat and stomach. Headache, nausea, vomiting, abdominal pain, convulsions, diarrhea, cyanosis, respiratory arrest. |

Section V. Toxicological Properties

Effects of Chronic Overexposure This substance is known to cause allergic reactions in certain individuals once they become sensitized after exposure to even small amounts over a period of time. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact IMMEDIATELY flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.

Skin contact Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash contaminated clothing before reusing.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

Ingestion If conscious, wash out mouth with water. DO NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. Guard against aspiration into lungs. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus.

Section VII. Reactivity Data

Stability Unstable. Moisture sensitive! Conditions to avoid: High temperatures (>37°C), sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products Not available.

Incompatibility Combustible materials, acids, oxidizing agents, water, humidity, sodium chlorite, organic materials.

Reaction Products Oxidizes in air to sodium bisulfate and bisulfite. Emits sulfur dioxide and heat on contact with hot water or acids. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

SODIUM HYDROSULFITE

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Protective Clothing in case of spill and leak Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Spill and leak Evacuate the area. Eliminate all sources of ignition. Sweep up and place in container for disposal. Avoid raising dust. Use non-sparking tools. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material. Avoid contact with a combustible material (wood, paper, oil, clothing...).

Waste disposal According to all applicable regulations. Harmful to aquatic life at low concentrations. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep at temperature not exceeding 37°C. Keep away from direct sunlight or strong incandescent light. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Protect from moisture. May catch fire if manipulated in presence of moisture. May catch fire in contact with combustible materials. Use explosion proof equipment. Use non-sparking tools. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. Avoid contact with a combustible material (wood, paper, oil, clothing...). This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.). Do not allow water to get inside container because of violent reaction.

Section IX. Protective Measures

Protective clothing Face shield and splash goggles. Impervious rubber or polyethylene gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. Wear appropriate MSHA/NIOSH approved chemical cartridge respirator. For emergency situations, a self-contained respirator is recommended (NIOSH-approved). Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Local mechanical exhaust ventilation capable of minimizing dust emissions at the point of use. Do not use in unventilated spaces. Adequate ventilation and clean up must be maintained to minimize dust accumulation. Dust layers should not be permitted to accumulate in order to avoid any potential for dust explosion hazards. Avoid dust cloud formation.

Section X. Other Information

Special Precautions or comments Harmful solid! Reactive flammable solid! Dangerously reactive material! Strong reducing agent! Irritant! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Heats spontaneously on contact with air and moisture. May ignite surrounding combustible materials. Keep away from heat, sparks and flame. Do not heat above 37°C. Reacts with water. Contact with acids liberates toxic gas. Handle and open container with care. Container should be opened only by a technically qualified person.



NFPA

Prepared by MSDS Department/Département de F.S..

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