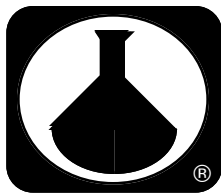


MATERIAL SAFETY DATA SHEET



Manufactured by:

ANDERSON

CHEMICAL COMPANY
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LITCHFIELD, MINNESOTA 55355
(320) 693-2477

Health 1
2 1
Special Hazard 2 1
Reactivity 1
* See Bottom of Page
NFPA Hazard Rating*

Health	2
Flammability	1
Reactivity	1
Personal Protection	X

HMIS Hazard Rating*

Product Name: **RC-501**

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC) Revised: 2/9/2006 Imt
Supersedes: 10/11/1993

I. IDENTIFICATION

Chemical Name And Synonyms:

Sodium hydrosulfite; sodium dithionite; dithionous acid, disodium salt.

DOT Shipping Name

Not applicable

Chemical Family:

Reducing Agent.

DOT Hazard Class & I.D. Number

Not applicable

PG

II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Sodium hydrosulfite	7775-14-6	<40	5 gm/ M3	5 mg/M3	NA	Flammable solid. Irritation to eyes and lungs.
Sodium metabisulfite	7681-57-4	<10	0.6 ppm	NE	NA	Corrosive

**Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372). NA: Not applicable
NE: Not established

III. PHYSICAL DATA

Boiling Point: Decomposes
Specific Gravity: Not applicable.
Appearance: White powder.

Form: Solid.
Solubility In Water: 18% by weight @ 20° C.
Odor: Slight sulfur dioxide odor.

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Decomposes
Extinguishing Media: Water in large quantities.
Special Fire Fighting Procedures: Use self contained breathing apparatus and full protective clothing. If decomposition is suspected in sealed container (hot to touch or pressure deformed), vent container by safest means possible. Move vented container to safe, open area. Empty, flood material with water, contain all runoff. Sand or dry chemical will not stop decomposition reactions.
Unusual Fire And Explosion Hazards:

Contact with small amounts of water or humid atmosphere will cause chemical reaction. heat generated is sufficient to ignite combustible materials. If fire code requires sprinklered storage, protect by covering with plastic. Promptly remove and inspect containers which are accidentally wetted. Under extreme fire conditions in confined spaces, large quantities of decomposing product can produce decomposition products, one of which is elemental sulfur. It is known that sulfur and its dusts at high concentrations may create potential for explosion. In the event that sulfur dust could present an explosion potential, the recommended response is to gently apply fog stream of water. May re-ignite after fire is extinguished. Closed containers may rupture violently when heated.

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are *not* considered to be a carcinogen by ACGIH, NTP, IARC, and OSHA.

Effects Of Over-exposure: **Inhalation:** May cause respiratory irritation and bronchospasms. Symptoms may include coughing and breathing difficulty. May cause severe respiratory distress in asthmatics. Asthmatics or persons with other respiratory disorders should be excluded from exposure. **Skin Contact:** May cause slight irritation. **Skin Absorption:** Practically nontoxic. LD50 (Rabbits) greater than 10,000 mg/kg. **Ingestion:** May cause mouth, throat, esophagus irritation or burns. May cause gastrointestinal disturbances. LD50 (Rats) greater than 500 mg/kg (slightly toxic). May cause sensitization in individuals allergic to sulfites. **Eye Contact:** May cause moderate to severe eye irritation. **Other:** Sulfur dioxide decomposition product may cause pulmonary irritation, bronchospasms, respiratory failure due to pulmonary edema. **Medical Conditions Aggravated By Overexposure:** Asthma, respiratory disease.

Emergency And First

Aid Procedures: **EYES:** Immediately flush with water for 15 minutes while holding eyelids open. GET MEDICAL ATTENTION.
SKIN: Remove contaminated clothing and wash affected area thoroughly with soap and water for 15 minutes. Wash clothing thoroughly before reuse. If irritation develops, GET MEDICAL ATTENTION.
INHALATION: Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer cardiopulmonary resuscitation. GET IMMEDIATE MEDICAL ASSISTANCE.
INGESTION: Get medical attention.

Page 2; Product Name: **RC-501**

VI. REACTIVITY DATA

Stability - Unstable: **Stable: X**

Conditions To Avoid: Heating above 122° F. (50° C); moisture.

Incompatibility: Oxidizing agents, peroxides, potassium chlorate, potassium permanganate, moisture.
(Materials To Avoid)

Hazardous

Decomposition Products: A major decomposition product is sulfur dioxide; however, during catastrophic decomposition other sulfur containing decomposition products such as hydrogen sulfide and mercaptans may be present.

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Wear appropriate personal protective equipment. Contain to minimize contaminated area. Recover as dry material. Discarded material is a hazardous waste because of reactivity with moisture. Keep material out of storm drains or ditches, surface waters, and drains to municipal waste water treatment systems.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH/MSHA approved respirator with acid gas cartridge and dust pre-filter for concentrations up to 10 times the recommended exposure limit. For higher concentrations, as well as for firefighting and other emergencies, use positive pressure, self-contained breathing apparatus.

Ventilation: Local ventilation recommended, mechanical ventilation may be use.

Protective Gloves: Neoprene, butyl rubber or PVC.

Eye Protection: Chemical goggles or safety glasses.

Protective Clothing: Work clothing to prevent exposure.

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Closed containers may rupture violently when heated. Keep stored material dry and at temperatures below 122° F. (50° C). Do NOT store containers open to air. Keep the container tightly covered when material is not in use. Separate containers from oxidizers, acids and flammable materials. Avoid sources of heat or flame. If stored in fire sprinkler protected area, cover container with plastic sheet to prevent wetting if sprinklers activate.

Other Precautions: If the container wall feels hot or if the container begins smoking, remove the container to an open area, remove material, flood with water, and contain run-off. Remove damaged or punctured containers from storage, secure any leaks and use product immediately or secure leaks, observe container for signs of product decomposition (container warm to the touch).

X. REVISED INFORMATION

MSDS Status:

Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of *ANDERSON* Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.