
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<p>Product name: RE-FORM ASSAY KIT</p> <p>ITEM A: SULFITE</p>

Catalog number: 201

General use: Part of an assay kit to determine concentration of formaldehyde.

Product description: White granules of sodium sulfite.

Manufacturer

Anatech Ltd.
1020 Harts Lake Road
Battle Creek, MI 49037
USA

Emergency contact information

Health:	Anatech Ltd.	800-262-8324	8 am - 5 pm ET, M-F
Transportation:	CHEMTREC	800-424-9300	24 hours

2. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Exposure limits</u>
Sodium sulfite	7757-83-7	Not established.

3. HAZARDS IDENTIFICATION

<p>Emergency overview</p> <p>White granules of sodium sulfite.</p> <p>Not likely to pose a hazard under normal conditions of use; irritant.</p>
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Potential health effects

(Human health effects only.)

Primary route(s) of exposure: Eyes, skin and inhalation.

Inhalation: Slight irritant.

Eye: Eye irritant.

Skin: May cause irritation.

Ingestion: Ingestion may irritate gastrointestinal tract due to the liberation of sulfurous acid.

3. HAZARDS IDENTIFICATION (continued)

Chronic effects: None known.

Signs and symptoms: Eyes may water and become reddened. Inhalation can cause coughing. Ingestion will result in gastrointestinal disturbances. May cause severe allergic reaction in sulfite sensitive individuals.

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.

Eye: Flush eyes for at least 15 minutes in an eyewash station. If symptoms persist after washing, consult a physician.

Skin: Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly; apply a good quality skin lotion. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. For severe conditions, consult a physician.

Ingestion: Call a poison control center immediately. If victim is conscious, have him/her drink several glasses of water to dilute the solution. Induce vomiting only upon the advice of a physician or poison control authority.

5. FIRE FIGHTING MEASURES

Flammable properties

Flash point: Not applicable.

Flammable limit: Not applicable.

Autoignition temperature: Not applicable.

Flammability classification: Nonflammable.

Flame propagation: None.

Hazardous products of combustion: Sulfur dioxide gas.

Extinguishing media: ABC rated portable fire extinguishers should be used. Professional fire fighters may use water spray, dry chemical or carbon dioxide.

Fire fighting instructions: Sealed chemical suits and self contained breathing apparatus are necessary for fighting fires involving substantial volumes of this product.

6. ACCIDENTAL RELEASE MEASURES

Remove dry granules. Wash affected area with water.

Comply with all applicable governmental regulations on spill reporting and on the handling and disposal of hazardous waste.

7. HANDLING AND STORAGE

Handling: No special precautions required.

Storage: Store at room temperature. Store in a dry place in original container away from excessive heat.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls: Good general room ventilation is essential.

Personal protective equipment

Respiratory protection: Generally not needed with small volume, but a NIOSH-approved particle mask may be used if desired.

Skin protection: Generally not needed with this small volume, but protective gloves may be used if desired. An eyewash station and safety shower must be nearby, preferably in the same room, no more than 10 seconds away.

Eye protection: Generally not needed with this small volume, but splash proof goggles may be used if desired. An eyewash station and safety shower must be nearby, preferably in the same room, no more than 10 seconds away.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White granules.

Odor: None.

Physical state: Solid.

pH: Not applicable.

Vapor pressure: Not applicable.

Vapor density: Not applicable.

Melting point: Not determined.

Boiling point: Not applicable.

Solubility in water: 17% solution at 10°C; 28% at 33.4°C

Specific gravity: Not applicable.

10. STABILITY AND REACTIVITY

Chemical stability: Stable.

Conditions to avoid: Heat and moisture.

Incompatibility with other materials: Acids, strong oxidizers.

Hazardous decomposition products: Sulfur oxides.

Hazardous polymerization: None.

11. TOXICOLOGICAL INFORMATION

Acute eye effects: None known.

Acute skin effects: None known.

Acute oral effects: OSHA considers chemicals to be toxic if their LD₅₀ is at or below 500 mg/kg. LD₅₀ is the dose killing 50% of the test animals in a given time (usually 4 hours). LD₅₀ was 820 mg/kg in mice.

Acute inhalation effects: None known.

Chronic effects/carcinogenicity: None known.

Teratology: None known.

Reproductive effects: None known.

Mutagenicity: None known.

12. ECOLOGICAL INFORMATION

No environmental information is known.

13. DISPOSAL CONSIDERATIONS

Discard small volumes in trash. Large volumes should be put into solution and poured down the drain with the permission of local wastewater treatment authorities.

Follow federal, state (provincial) and local regulations. Proper waste disposal is the generator's responsibility.

Canadian disposal regulations generally parallel those in the United States.

14. TRANSPORTATION INFORMATION

DOT (ground and air) and IATA: Not regulated.

15. REGULATORY INFORMATION

OSHA (USA): Under the Hazard Communication Standard and the Laboratory Standard, this product is a hazardous material: it is an irritant. The OSHA Standards cited mandate that exposed workers receive proper training in the properties of this product, work practices involved with its handling and disposal, and interpretation of its MSDS.

FDA (USA): Not applicable.

EPA (USA): Re-Form Assay Kit Item A is a reportable substance under SARA Title III.

16. OTHER INFORMATION

Label warning: Eye irritant.

NFPA (National Fire Protection Association) Rating:

General note: This rating is applicable only to safeguard the lives of individuals who may be concerned with fires occurring in an industrial plant or storage location. The ratings provide information to emergency personnel on whether to evacuate the area or how to perform control procedures. It is not descriptive of hazards under normal conditions of occupational use, and is even less applicable to anticipated laboratory-scale use.

Health 2: Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

Flammability 0: Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

Instability 0: Materials that are normally stable even under fire conditions.

This Material Safety Data Sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard. It conforms to the provisions of the American National Standards Institute (ANSI) Standard Z400.1 (Standard for the Preparation of Material Safety Data Sheets). Information contained herein was obtained from sources which Anatech Ltd. believes are reliable. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.