

MATERIAL SAFETY DATA SHEET

ANATRACE, INC.
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Chemical Emergency (24-hr):
- Within U.S. & Canada (800-424-9300)
- International (703-527-3887)

Effective Date: 02/01/2006 Revised:

NAME: DTE (Dithioerythritol) **CAT. NO:** D2001

MF: C₄H₁₀O₂S₂ / **FW:** 154.25 **CAS NO:** 6892-68-8

CHIP R & S Phrases: R:36/37/38 Irritating to eyes, respiratory system and skin
S:22 Do not breathe dust. S:36/37 Wear suitable protective clothing and gloves.

HAZARDS IDENTIFICATION: CHIP: Irritant. **HCS:** Irritant.

FIRST-AID MEASURES EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam.

Flash Point =No data available.

ACCIDENTAL RELEASE MEASURES Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, rubber gloves and NIOSH-approved dust mask. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

HANDLING AND STORAGE Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, rubber gloves and NIOSH-approved dust mask. Avoid contact of material with skin or eyes. Use adequate ventilation. Store at -20_ C.

PERSONAL PROTECTION Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, rubber gloves and NIOSH-approved dust mask. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder; mercaptan odor Boiling Point: No data available

Vapor Pressure: No data available Vapor Density: No data available

Solubility (Water): Soluble Specific Gravity: No data available

Percent Volatile: No data available Evaporation Rate: No data available

Chemical formula: C₄-H₁₀-O₂-S₂

STABILITY AND REACTIVITY Product is stable in the cold. Incompatible with strong oxidizing agents, reducing agents and alkali metals. Thermal decomposition may produce toxic fumes of carbon monoxide, carbon dioxide, oxides of sulfur and hydrogen sulfide gas. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION EFFECTS OF OVEREXPOSURE:

EYES: Contact may cause irritation.

SKIN: Contact may cause irritation, may be absorbed. May also cause contact-type dermatitis.

INHALATION: May cause irritation. Inhalation may cause nausea, headache and vomiting.

Exposure may also result in blood in urine, difficulty breathing, irregular heartbeat, anemia, weakness, drunkenness, bluish skin color, lung congestion, kidney damage, paralysis, convulsions, unconsciousness and coma.

INGESTION: Chronic ingestion or excessive dosage may cause irritation of the mouth, throat, esophagus and gastrointestinal tract. Exposure may also result in blood in the urine, difficulty breathing, irregular heartbeat, anemia, weakness, drunkenness, bluish skin color, lung congestion, kidney damage, paralysis and coma. Exposure to Thiols, especially in excess of 50 ppm, may result in cyanosis, rapid pulse, dyspnea, fever, irreversible depression of cerebral function, respiratory paralysis, delayed pulmonary edema, renal damage, with hematuria and albuminuria, and hepatic damage.

ADDITIONAL INFORMATION:

Mutation and toxicity data listed in RTECS under KF2410000.

Intramuscular Mouse LD50 = 309 mg/kg10 gm/kg (London, UK - 1949) Toxic effects may included convulsions or effect on seizure threshold.

Definitions: RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION No information available

DISPOSAL CONSIDERATIONS Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION US DOT / IATA: No applicable information.

REGULATORY INFORMATION RCRA - No applicable information.

SARA 302 - No applicable information.

SARA 313 - No applicable information.

EPA TSCA Section 8(b) - Chemical Inventory.

Exposure Limits - Not established.

California Proposition 65 - No applicable information.

This bulletin is for your guidance and is based upon information and tests believed to be reliable. Anatrace makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data is offered solely for your consideration, investigation, and verification. These suggestions should not be confused with either state, municipal, or insurance requirements, or with national safety codes, and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local regulations.