SECTION 1. - - - - - - - CHEMICAL IDENTIFICATION - - - - - - -

PRODUCT #: D0632
NAME: DL-DITHIOTHEREIOL

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 27565-41-9
MF: C4H10O2S2
SYNONYMS:
2,3-BUTANEDIOL, 1,4-DIMERCAPTO-, DL-DITHIO-, 2,3-BUTANEDIOL, 1,4-
DIMERCAPTO-, (R*,R*)-1,4-DITHIO-, (S*,S*)-1,4-DITHIO-, 2,3-
DITEMERCAPTO-, DITHIO-, RAC-DITHIO-, DL-DITHIO-, DL-1,4-
DITHIO-, RAC-DITHIO-, DTT

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

LABEL PRECAUTIONARY STATEMENTS:
HARMFUL
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
UNPLEASANT ODOR.
TARGET ORGAN(S):
CENTRAL NERVOUS SYSTEM.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS
OF WATER FOR AT LEAST 15 MINUTES.
IF INHALED, REMOVE TO FRESH AIR.
IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION.
IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
DISCARD CONTAMINATED CLOTHING AND SHOES.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

PRODUCT #: D0632
NAME: DL-DITHIOETHEROL

CARBON DIOXIDE, DRY CHEMICAL PUDER OR APPROPRIATE FOAM.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7 - HANDLING AND STORAGE
REFER TO SECTION 8.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT
GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
HARMFUL SOLID.
KEEP TIGHTLY CLOSED.
UNPLEASANT ODOR.
STORE IN A COOL DRY PLACE.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
CONTINUED ON NEXT PAGE
PRODUCT #: 00632
NAME: DL-DITHIOHREITOL

MF#: C4H10O2S2

CUST#: 2-097-94816
PG#: 263468

APPEARANCE AND ODOR
SOLID.
MELTING POINT: 42 °C TO 44 °C
FLASHPOINT > 230 °C
> 109 °C

SECTION 10. STABILITY AND REACTIVITY

STABILITY:

INCOMPATIBILITIES:
Bases, Oxidizing Agents, Reducing Agents, Alkaline Earth Metals

HAZARDS FROM EXPOSURE TO MOIST AIR OR WATER:

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

TOXIC FUNGUS OF:
Carbon Monoxide, Carbon Dioxide, Sulfur Oxides, Hydrogen Sulfide Gas

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:
Harmful if Swallowed, Inhaled, or Absorbed Through Skin. Causes Eye and Skin Irritation.
Material is irritating to mucous membranes and upper respiratory tract.
Exposure can cause: Nausea, Headache and Vomiting
CNS Depression

CHRONIC EFFECTS:
Target Organ(s):
Central Nervous System

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS NO: X08576500

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

PRODUCT #: 00632
NAME: DL-DITHIODREITOL
MF#: C4H10O2S2
CUST#: 2-097-94816
PO#: 263468

SECTION 1. IDENTIFICATION

SECTION 2. HAZARDS IDENTIFICATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 4. FIRST AID MEASURES

SECTION 5. FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

SECTION 7. HANDLING AND STORAGE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10. STABILITY AND REACTIVITY

SECTION 11. TOXICOLOGICAL INFORMATION

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

SECTION 14. TRANSPORT INFORMATION

SECTION 15. REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

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