Ethane,1,2-bis[(2-chloroethyl)thio]- (cas 3563-36-8) MSDS

**MSDS:** Ethane, 1,2-bis(2-chloroethylthio)-
**CAS:** 3563-36-8
**SYNONYMS:** * Bis(2-chloroethylthio)ethane
  * 1,2-Bis(beta-chloroethylthio)ethane
  * 1,2-Bis(2-chloroethylthio)ethane
  * Ethane, 1,2-bis(2-chloroethylmercapto)–
  * Sesquimustard
  * Sesquimustard Q
  * TL 86

**HEALTH HAZARD DATA**

**ACUTE TOXICITY DATA**

**TYPE OF TEST:** LCLo - Lowest published lethal concentration
**ROUTE OF EXPOSURE:** Inhalation
**SPECIES OBSERVED:** Human
**DOSE/DURATION:** 300 mg/m3
**TOXIC EFFECTS:**
- Lungs, Thorax, or Respiration - fibrosis, focal (pneumoconiosis)
- Lungs, Thorax, or Respiration - cyanosis
- Lungs, Thorax, or Respiration - other changes

**REFERENCE:** SCJUAD Science Journal. (London, UK) V.1-7, 1965-71. For publisher information, see NWSGAL. Volume(issue)/page/year: 3(4),33,1967

**TYPE OF TEST:** LC50 - Lethal concentration, 50 percent kill
**ROUTE OF EXPOSURE:** Inhalation
**SPECIES OBSERVED:** Rodent - rat
**DOSE/DURATION:** 11 mg/m3/10M
**TOXIC EFFECTS:**
- Behavioral - ataxia
- Lungs, Thorax, or Respiration - dyspnea
- Gastrointestinal - hypermotility, diarrhea

**REFERENCE:** TXAPAS Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth, MN 55802) V.1- 1959- Volume(issue)/page/year: 5,677,1963

**TYPE OF TEST:** LC50 - Lethal concentration, 50 percent kill
**ROUTE OF EXPOSURE:** Inhalation
**SPECIES OBSERVED:** Rodent - mouse
**DOSE/DURATION:** 6 mg/m3/10M
**TOXIC EFFECTS:**
- Behavioral - ataxia
- Lungs, Thorax, or Respiration - dyspnea
Gastrointestinal - hypermotility, diarrhea

REFERENCE:

TYPE OF TEST: LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 10 mg/kg

TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value

REFERENCE:
NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: PB158-507

TYPE OF TEST: LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE: Inhalation
SPECIES OBSERVED: Mammal - dog
DOSE/DURATION: 90 mg/m3/2M

TOXIC EFFECTS:
Behavioral - ataxia
Lungs, Thorax, or Respiration - dyspnea
Gastrointestinal - hypermotility, diarrhea

REFERENCE:

TYPE OF TEST: LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE: Inhalation
SPECIES OBSERVED: Rodent - guinea pig
DOSE/DURATION: 8 mg/m3/10M

TOXIC EFFECTS:
Behavioral - ataxia
Lungs, Thorax, or Respiration - dyspnea
Gastrointestinal - hypermotility, diarrhea

REFERENCE:

TYPE OF TEST: LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - guinea pig
DOSE/DURATION: 40 mg/kg

TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value

REFERENCE:
NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: PB158-507

TYPE OF TEST: LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE: Inhalation
SPECIES OBSERVED: Rodent - hamster
DOSE/DURATION: 22 mg/m3/10M

TOXIC EFFECTS:
Behavioral - ataxia
Lungs, Thorax, or Respiration - dyspnea
Gastrointestinal - hypermotility, diarrhea

REFERENCE:

TYPE OF TEST: LC50 - Lethal concentration, 50 percent kill
ROUTE OF EXPOSURE: Inhalation
SPECIES OBSERVED: Bird - pigeon
DOSE/DURATION: 61 mg/m3/10M

TOXIC EFFECTS:
Behavioral - ataxia
Lungs, Thorax, or Respiration - dyspnea
Gastrointestinal - hypermotility, diarrhea

REFERENCE:

*** END OF RECORD ***