Material Safety Data Sheet

Identification

Product #: M8163-2  Name: Methyl Sulfide, 98%
CAS #: 75-18-3

Toxicity Hazards

RTECS #: PV5075000  Methyl Sulfide

Irritation Data
SKN-RBT 500 MG/24H MLD
EYE-RBT 250 MG/24H SEV

Toxicity Data
ORL-RAT LD50: 535 MG/KG
IHL-RAT LC50: 40250 PPMM
ORL-MUS LD50: 3700 MG/KG
IHL-MUS LC50: 31620 MG/M3

EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, June 1987

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Health Hazard Data

Acute Effects
May be harmful by Inhalation, Ingestion, or Skin Absorption.
Causes severe eye irritation.
Causes skin irritation.
Material is irritating to mucous membranes and upper respiratory tract.
Exposure can cause:
NAUSEA, HEADACHE AND VOMITING

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

First Aid
In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.
Assure adequate flushing of the eyes by separating the eyelids with fingers.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Call a physician.
Remove and wash contaminated clothing promptly.

Physical Data

Melting Point: -98 C
Boiling Point: 38 C
Specific Gravity: 0.846
Vapor Density: 2.1
MATERIAL SAFETY DATA SHEET

CATALOG # M8163-2
NAME: METHYL SULFIDE, 98%

VAPOR PRESSURE: 398.0 MM @ 20 C
776.0 MM @ 37.7 C

FIREFIGHTING DATA

AUTO IGNITION TEMP.: 402 F
LOWER EXPLOSION LEVEL: 2.2%
UPPER EXPLOSION LEVEL: 19.7%
FLASH POINT: -34 F

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.
WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS
EXTREMELY FLAMMABLE.
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND
FLASH BACK.
CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.
FORMS EXPLOSIVE MIXTURES IN AIR.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE
SULFUR OXIDES
HYDROGEN SULFIDE GAS

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH AN ACTIVATED CARBON ADSORBENT, TAKE UP AND PLACE IN CLOSED CONTAINERS. TRANSPORT OUTDOORS.
USE NONSPARKING TOOLS.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

SAVE DRY, AND STORE IN A DRY LOCATION.
USE ONLY IN A CHEMICAL FUME HOOD.
DO NOT BREATHE VAPOR.
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
SEVERE EYE IRRITATION.
KEEP TIGHTLY CLOSED.
MATERIAL SAFETY DATA SHEET

CATALOG # M0163-2  NAME: METHYL SULFIDE, 98%

STENCIL
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
OPEN CAREFULLY.
MAY DEVELOP PRESSURE.
REFRIGERATE BEFORE OPENING.

ADDITIONAL PRECAUTIONS AND COMMENTS

NOT APPLICABLE

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