

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

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## Composition/Information on Ingredient

**Cas:**

136-23-2

**Code:**

M

**RTECS:**

ZH0175000

**Code:**

M

**Name:**

ZINC DIBUTYLDITHIOCARBAMATE

**Other REC Limits:**

N/K

**OSHA PEL:**

N/K

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

N/K

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

USE A NIOSH SELF-CONTAINED BREATHING APPARATUS FOR EMERGENCIES.

**Ventilation:**

USE APPROPRIATE LOCAL EXHAUST VENTILATION TO CONTROL EXPOSURES PERMITTED.

**Protective Gloves:**

3 RUBBER

**Eye Protection:**

SPLASH-PROOF GOGGLES

**Other Protective Equipment:**

Equipment BOOTS, APRONS, &CHEMICAL SUITS.

**Work Hygienic Practices:**

REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

**Supplemental Safety and Health:**

N/K

## Health Hazards Data

**LD50/LC50 Mixture:**

N/K

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

SKIN/EYE: IRRITATION. INHALATION: DIZZINESS, NAUSEA, HEADACHE, LOSS OF CONCENTRATION, DRUNKENESS, LETHARGY, & NUMBNESS. INGESTION: VOMITING & ASPIRATION INTO THE LUNGS MAY LEAD TO PNEUMONIA & PULMONARY EDEMA.

**Explanation Of Carcinogenicity:**

NONE

**Signs And Symptoms Of Overexposure:**

SKIN/EYE: IRRITATION. INHALATION: DIZZINESS, NAUSEA, HEADACHE, LOSS OF CONCENTRATION, DRUNKENESS, LETHARGY, & NUMBNESS. INGESTION: VOMITING & ASPIRATION INTO THE LUNGS MAY LEAD TO PNEUMONIA & PULMONARY EDEMA.

**Medical Cond Aggravated By Exposure:**

N/K 2

**First Aid:**

EYES/SKIN: FLUSH W/WATER. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION, IF NOT BREATHING. IF BREATHING, GIVE OXYGEN. INGESTION: DRINK LOTS OF WATER. DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTE TO PHYSICIAN: NEVER ADMINISTER ADRENALIN.

**Spill Release Procedures:**

EVACUATE AREA. PROVIDE MAXIMUM VENTILATION. DIKE AREA TO CONTAIN SPILL. ABSORB SPILLED MATERIAL W/SAWDUST & VERMICULITE. SWEEP INTO CLOSED CONTAINERS FOR DISPOSAL. DON'T FLUSH TO SEWER. AFTER SPILL HAS BEEN REMOVED, THOROUGHLY WET VACUUM AREA.

**Neutralizing Agent:**

N/K

**Waste Disposal Methods:**

CONTAMINATED ABSORBENTS MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY IN ACCORDANCE W/FEDERAL, STATE, & LOCAL REGULATIONS. AVOID CONTAMINATION OF WATER SUPPLIES.

**Handling And Storage Precautions:**

DON'T USE IN POORLY VENTILATED AREA W/OUT PROPER RESPIRATORY PROTECTION. STORE IN CLOSED PROPERLY LABELED CONTAINERS. AVOID SKIN CONTACT.

**Other Precautions:**

N/K

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

N/A

**Flash Point Text:**

N/K

**Autoignition Temp:**

N/A

**Autoignition Temp Text:**

N/A

**Lower Limits:**

N/K

**Upper Limits:**

N/K

**Extinguishing Media:**

WATER, DRY CHEMICALS, & CO<sub>2</sub>.

**Fire Fighting Procedures:**

FIRE FIGHTERS SHOULD WEAR NIOSH/MSHA APPROVED PRESSURE-DEMAND, SELF-CONTAINED BREATHING APPARATUS.

**Unusual Fire/Explosion Hazard:**

NON FLAMMABLE LIQUID.

## Physical/Chemical Properties

**HCC:****NRC/State IC No:**

N/P

**Net Prop WT For Ammo:**

N/P

**Boiling Point:**

N/A

**B.P. Text:**

162F

**Melt/Freeze Pt:**

N/A

**M.P./F.P. Text:**

N/K

**Decomp Temp:**

N/A

**Decomp Text:**

N/K

**Vapor Pres:**

N/K

**Vapor Density:**

4.54

**Volatile Org Content %:**

N/A

**Spec Gravity:**

1.27

**VOC Pounds/Gallon:**

N/A

**pH:**

N/K

**VOC Grams/Liter:**

N/A

**Viscosity:**

N/P

**Evaporation Rate & Reference:**

(ETHYL ETHER=1) & 0.35 Reference:

**Appearance and Odor:**

TURBID LIQUID W/SLIGHT TAN COLOR & CHLORINATED HYDROCARBON ODOR.

**Percent Volatiles by Volume:**

90%

**Corrosion Rate:**

N/K

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

OPEN FLAMES, HOT GLOWING SURFACES, & ELECTRIC ARC.

**Materials To Avoid:**

N/K

**Hazardous Decomposition Products:**

HYDROGEN CHLORIDE & TRACES OF PHOSGENE.

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

N/R

## Toxicological Information

Information: N/P

## MSDS Transport Information

Information: N/P

## Regulatory Information

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

**Other Information:**

N/P

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