

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-223/2231-57-4.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

2231-57-4

**Code:**

M

**RTECS:**

FF2975000

**Code:**

M

**Name:**

THIOCARBOHYDRAZIDE. EINECS # 218-769-8. Environm

**Other REC Limits:**

N/P

**OSHA PEL:**

N/P

**Code:****OSHA STEL:**

N/P

**Code:****ACGIH TLV:**

N/P

**Code:****ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

A NIOSH APPROVED RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS OR EUROPEAN STANDARD EN 149 MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

**Ventilation:**

USE PROCESS ENCLOSURE, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS.

**Protective Gloves:**

IMPERVIOUS GLOVES (FP N).

**Eye Protection:**

ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:**

Equipment EYE WASH DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). WEAR APPROPRIATE PROTECTIVE CLOTHING TO MINIMIZE CONTACT WITH SKIN.

**Work Hygienic Practices:**

4 AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER.

**Supplemental Safety and Health:**

PHYSICAL AND CHEMICAL PROPERTIES: DENSITY: NOT AVAILABLE. MOLECULAR FORMULA: H<sub>2</sub>NNHCSNHNH<sub>2</sub>. MOLECULAR WEIGHT: 106.15.

## Health Hazards Data

**LD50/LC50/Mixture:**

NOT AVAILABLE.

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

ACUTE: EYE: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION. INGESTION: MAY BE FATAL IF SWALLOWED. INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. THE TOXICOLOGICAL PROPERTIES OF THIS SUBSTANCE HAVE NOT BEEN FULLY INVESTIGATED. CHRONIC: NOT AVAILABLE.

**Explanation Of Carcinogenicity:**

2 THIOCARBOHYDRAZIDE - NOT LISTED BY ACGIH, IARC, NIOSH, NTP, OR OSHA.

**Signs And Symptoms Of Overexposure:**

SEE HEALTH HAZARDS.

**Medical Cond Aggravated By Exposure:**

N/P

**First Aid:**

EYES: FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER & LOWER LIDS. GET MEDICAL AID IMMEDIATELY. SKIN: GET MEDICAL AID. FLUSH WITH PLENTY OF SOAP & WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING & SHOES. REMOVE CONTAMINATED CLOTHING & SHOES. INGEST: GET MEDICAL AID IMMEDIATELY. IF CONSCIOUS DRINK WATER, THEN INDUCE VOMITING. IF UNCONSCIOUS, IMMEDIATELY TAKE VICTIM TO MEDICAL & DO NOT ATTEMPT TO INDUCE VOMITING. INHAL: GET MEDICAL AID IMMEDIATELY. REMOVE FROM

**Spill Release Procedures:**

USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS INDICATED IN EXPOSURE CONTROLS, PERSONAL PROTECTION SECTION. CLEAN UP SPILLS IMMEDIATELY, OBSERVING PRECAUTIONS IN THE PROTECTIVE EQUIPMENT SECTION.

**Neutralizing Agent:**

N/P

**Waste Disposal Methods:**

DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**Handling And Storage Precautions:**

DO NOT BREATHE DUST, VAPOR, MIST OR GAS. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. USE ONLY IN A CHEMICAL FUME HOOD. STORE IN A COOL, DRY PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. POISON ROOM LOCKED.

**Other Precautions:**

EMERGENCY OVERVIEW: HIGHLY FLAMMABLE. VERY TOXIC IF SWALLOWED. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P 3

**Flash Point:****B.P. Text:**

NOT AVAILABLE

**Mel/Freeze Pt:**

=171C, 339F

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

NO

**Decomp Temp:**

NOT AVAILABLE

**Evaporation Rate & Reference:**

N/P

**Solubility in Water:**

NOT AVAILABLE

**Appearance and Odor:**

WHITE POWDER; NO ODOR AVAILABLE.

**Percent Volatiles by Volume:**

N/P

**Corrosion Rate:**

N/P

## 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

**Other Information:**

N/P

**Other Information:**

N/P



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