

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-297/297-97-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
297-97-2  
**Code:**  
M

**RTECS:**  
TF5775000  
**Code:**  
M

**Name:**  
THIONAZIN, O,O-DIETHYL O-2-PYRAZINYL PHOSPHOTIONA

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

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

**ACGIH TLV:**  
N/K  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
USE OSHA/MSHA APPROVED SAFETY EQUIPMENT.

**Ventilation:**  
REQUIRED.

**Protective Gloves:**  
CHEMICAL RESISTANT

**Eye Protection:**  
CHEMICAL GOGGLES, FACE SHIELD

**Other Protective Equipment:**  
Equipment CHEMICAL RESISTANT CLOTHING; LAB COAT, RUBBER APRON.

**Work Hygienic Practices:**  
N/K

**Supplemental Safety and Health:**  
LD50 INFORMATION IS FOR: METHYLENE CHLORIDE.

## Health Hazards Data

**LD50LC50Mixture:**  
ORAL LD50(RAT): 2136 MG/KG (SEE SUPP)

**Route Of Entry Inds - Inhalation:**  
NO

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
YES

**IARC:**  
YES

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
TOXIC; IRRITANT.

**Explanation Of Carcinogenicity:**  
SEE INGREDIENTS.

**Signs And Symptoms Of Overexposure:**  
TOXIC; IRRITANT.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
EYES/SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF NECESSARY. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
A LEAKING BOTTLE MAY BE PLACED IN A PLASTIC BAG & NORMAL DISPOSAL PROCEDURES FOLLOWED. LIQUID SAMPLES MAY BE ABSORBED ON VERMICULITE/SAND.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
BURN IN A CHEMICAL INCINERATOR EQUIPPED W/AN AFTERBURNER & SCRUBBER. DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
USE APPROPRIATE OSHA/MSHA APPROVED SAFETY EQUIPMENT. KEEP TIGHTLY CLOSED, & STORE IN A COOL, DRY PLACE.

**Other Precautions:**  
THIS MATERIAL SHOULD ONLY BE USED BY THOSE PERSONS TRAINED IN THE SAFE HANDLING OF HAZARDOUS CHEMICALS. DIRECT PHYSICAL CONTACT SHOULD BE AVOIDED.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/K 4

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
CO2, DRY CHEMICAL POWDER/WATER SPRAY.

**Fire Fighting Procedures:**  
N/K

**Unusual Fire/Explosion Hazard:**  
N/K

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/K

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
N/K

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P 5

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
N/K

**Appearance and Odor:**  
LIQUID

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
N/K

**Materials To Avoid:**  
STRONG OXIDIZERS

**Hazardous Decomposition Products:**  
N/K

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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