

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-340/34014-18-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

34014-18-1

**Code:**

M

**RTECS:**

YS4250000

**Code:**

M

**Name:**

TIUROLAN

**Other REC Limits:**

NONE SPECIFIED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

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

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

WEAR NIOSH/MSHA APPROVED DUST RESPIRATORS IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL.

**Ventilation:**

MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED.

**Protective Gloves:**

4 NEOPRENE OR NATURAL RUBBER

**Eye Protection:**

SAFETY SPLASH GOGGLES

**Other Protective Equipment:**

Equipment EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

**Work Hygienic Practices:**

OBSERVE GOOD PERSONAL HYGIENE PRACTICES. LAUNDER CONTAMINATED CLOTHING BEFORE WEARING. KEEP WORK AREA CLEAN.

**Supplemental Safety and Health:**

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE DUST.

## Health Hazards Data

**LD50/LC50 Mixture:**

LD50 (ORAL RAT) IS UNKNOWN

**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, SKIN & RESPIRATORY TRACT IRRITATION. CHRONIC: PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE SKIN IRRITATION AND MAY RESULT IN AN ALLERGIC SKIN REACTION.

**Explanation Of Carcinogenicity:**

NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

**Signs And Symptoms Of Overexposure:**

EYE, SKIN & RESPIRATORY TRACT IRRITATION.

**Medical Cond Aggravated By Exposure:**

PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

**First Aid:**

INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES (OPEN EYELIDS). GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ADVICE IF IRRITATION PERSISTS. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

**Spill Release Procedures:**

SMALL SPILL: WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBENT. PUT IN DISPOSAL CONTAINER. REMOVE RESIDUE WITH WATER. LARGE SPILL: IF POSSIBLE, S LEAK. DIKE TO RETAIN RUN OFF. VACUUM UP FREE LIQUID. DO NOT CONTAMINATE WATER, FOOD OR FEED.

**Neutralizing Agent:**

NOT APPLICABLE.

**Waste Disposal Methods:**

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. 3

**Handling And Storage Precautions:**

STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND MOISTURE.

**Other Precautions:**

DO NOT INGEST. USE WITH ADEQUATE VENTILATION. DO NOT BREATHE VAPOR OR MIST. DO NOT GET IN EYES. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. AVOID REPEATED OR PROLONGED CONTACT WITH SKIN.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:****Flash Point Text:**

NOT APPLICABLE

**Autoignition Temp:****Autoignition Temp Text:**

518F

**Lower Limits:**

0.06 OZ/CUFT

**Upper Limits:**

N/R

**Extinguishing Media:**

USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

**Fire Fighting Procedures:**

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

**Unusual Fire/Explosion Hazard:**

NONE SPECIFIED BY MANUFACTURER.

## Physical/Chemical Properties

**HCC:**

T5

**NRC/State Lic No:**

N/R

**Net Prop WT For Ammo:**

NO

**Boiling Point:**

N/R

**B.P. Text:**

N/R

**Melt/Freeze Pt:**

N/R

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

N/R

**Decomp Temp:**

N/R

**Decomp Text:**

UNKNOWN

**Vapor Pres:**

N/R

**Vapor Density:**

N/R

**Volatile Org Content %:**

NO

**Spec Gravity:**

UNKNOWN

**VOC Pounds/Gallon:**

N/R

**PH:**

7.4

**VOC Grams/Liter:**

N/R

**Evaporation Rate & Reference:**

NOT APPLICABLE

**Solubility in Water:**

DISPERSES IN WATER

**Appearance and Odor:**

A VERY FINE, OFF-WHITE POWDER

**Percent Volatiles by Volume:**

0

**Corrosion Rate:**

UNKNOWN

**Conditions To Avoid Polymerization:**

NOT APPLICABLE

## 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