

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-415/4151-51-3.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

4151-51-3

Code:

M

RTECS:**Code:**

X

Name:

TRIS (4-ISOCYANAHENYL) THIOPHOSPHATE (TT)

Other REC Limits:

NONE SPECIFIED

OSHA PEL:

NOT ESTABLISHED

Code:

M

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

NOT ESTABLISHED

Code:

M N/P

ACGIH STEL:

EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

Code:

1 ACGIH STEL:

Control Measures

Respiratory Protection:

SUPPLIED AIR RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:

PROVIDE LOCAL EXHAUST. SHOULD BE USED TO MAINTAIN LEVELS BELOW EXPOSURE LIMITS OR GUIDELINES.

Protective Gloves:

CHEMICAL RESISTANT GLOVES 3

Eye Protection:

GOOGLES RECOMM WHEN CONTACT POSSIBLE

Other Protective Equipment:

Equipment CHEM RESISTANT CLOTHING RECOMMENDED WHEN PHYSICAL CONTACT POSSIBLE. SAFETY SHOWER & EYEWASH STATION SHOULD BE AVAILABLE.

Work Hygienic Practices:

A SAFETY SHOWER AND EYEWASH STATION SHOULD BE AVAILABLE. IN EVENT CONCENTRATIONS MEET/EXCEED TLVs, USE RESP PROTECTION.

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:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

NONE UNDER NORMAL CONDITIONS. INHAL:IRRITANT, NARCOTIC & NEUROTOXIN. SKIN:IRRITANT. IRRIT, SCALING, CRACKING, REDDENING, SWELLING, RASH, BLISTERING. CURED MAT'L DIFFICULT TO REMOVE. EYE:IRRITANT, TEAR ING, REDDENING, SWELLING. INGEST:IRRIT,INTERNAL CORROSIVE ACTION (SORE THROAT, ABDOM PAIN, NAUSEA, VOMITING, DIARRHEA).

Explanation Of Carcinogenicity:

MC CLASSIFIED AS ANTICIPATED HUMAN CARCINOGEN BY NTP. MC IS LISTED IN VOL 41 AS CATEGORY 2B (IARC).

Signs And Symptoms Of Overexposure:

N/K

Medical Cond Aggravated By Exposure:

N/K

First Aid:

2 INHAL:REMOVE TO FRESH AIR IMMED. IF BREATH SPED, GIVE ARTIF RESP. GET MED AID IMMED. SKIN:REMOVE CONTAM CLOTH IMMED. WASH AREA W/SOAP OR MILD DETERGNT & LRG AMT WATER. GET MED AID IMMED. EYE:WASH E YES IMMED W/LRG AMT WATER OR NORMAL SALINE, LIFTING EYELIDS. GET MED AID IMMED. INGEST:PREVENT ASPIRATION. MAINTAIN AIRWAY, BP, RESPRTN. GET MED AID IMMED. QUALIFIED MED PERSONNEL MUST GIVE TREATMENT.

Spill Release Procedures:

TAKE UP WITH INERT ABSORBENT AND PLACE IN CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:

N/K

Waste Disposal Methods:

DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE. CONTACT LICENSED CHEMICAL WASTE DISPOSAL AGENCY.

Handling And Storage Precautions:

KEEP CONTAINER TIGHTLY CLOSED AND AWAY FROM HEAT AND IGNITION SOURCES, AND DO NOT SMOKE.

Other Precautions:

WATER POLLUTING LIQUID. THE MATERIAL MUST NOT FLOW INTO WASTE WATER OR SURFACE WATERS.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

N/K

Flash Point Text:

NONE

Autoignition Temp:

N/K

Autoignition Temp Text:

N/K

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

DRY CHEMICAL, CARBON DIOXIDE, FOAM, WATER

Fire Fighting Procedures:

COOL FIRE EXPOSED CONTAINERS WITH WATER WATER SPRAY.

Unusual Fire/Explosion Hazard:

NONE

Physical/Chemical Properties

HCC:

T4

State/Local Lic No:

N/K

Net Prop WT For Ammo:

N/K

Boiling Point:

N/K

B.P. Text:

N/K

Melt/Freeze Pt:

N/K

M.P./F.P. Text:

N/K

Decomp Temp:

N/K

Decomp Text:

N/K

Vapor Pres:

N/K

Vapor Density:

N/K

Volatile Org Content %:

NONE

Spec Gravity:

1.32 G/CM3 @ 23C

VOC Pounds/Gallon:

NONE

PH:

N/K

VOC Grams/Liter:

NONE

Viscosity:

N/K

Evaporation Rate & Reference:

80 (BU AC=1)

Solubility in Water:

REACT SLOWLY W/WATER

Appearance and Odor:

YELLOWISH LIQUID TO BROWNISH LIQUID WITH ODOR OF SOLVENTS.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

AVOID TEMPERATURES ABOVE 40C, OPEN FLAMES AND WELDING AREAS WHICH CAN CAUSE THERMAL DEGRADATION.

Materials To Avoid:

ALCOHOL, ACID, & ALKALI. MC REACTS VIOLENTLY W/UNPROTECTED ALUMINUM & ZINC SURFACES, SODIUM, POTASSIUM, MAGNESIUM.

Hazardous Decomposition Products:

BY HIGH HEAT & FIRE: CO, NOX, POX, SOX, HCl AND SMALL AMOUNTS OF PHOSGENE AND CHLORINE.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

AVOID TEMPERATURES ABOVE 40C.

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

Information:

N/P

Information:</