## MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click <a href="http://www.lookchem.com/cas-110/110-02-1.html">http://www.lookchem.com/cas-110/110-02-1.html</a> for suppliers of this product.

Composition/Information on Ingredient

Cas: 110-02-1

Μ

Name:

NK

Μ

Code:

Code: Μ

NΡ Code:

**THIOPHENE** 

**OSHA PEL:** NK (FP N) Code:

**OSHA STEL:** 

**ACGIH TLV:** NK (FP N)

**ACGIHSTEL:** 

Ventilation:

1910.1028(F).

**Protective Gloves:** 

**Eye Protection:** 

&EQUIPMENT.

**Control Measures** 

IMPERVIOUS GLOVES (FP N). 8

Other Protective Equipment:

**Work Hygienic Practices:** 

NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:** 

RAIL/TANK TRUCK IS (ING 4)

LD50LC50Mixture: SEE INGREDIENT 1.

YES

Skin: YES

IARC: YES

OSHA: YES

Ingestion:

Health Hazards Data

**Route Of Entry Inds - Inhalation:** 

**Carcinogenicity Inds - NTP:** 

**Health Hazards Acute And Chronic:** 

**Explanation Of Carcinogenicity:** 

Signs And Symptions Of Overexposure:

**Medical Cond Aggravated By Exposure:** 

**Spill Release Procedures:** 

**Waste Disposal Methods:** 

NONE SPECIFIED BY MANUFACTURER.

**Handling And Storage Precautions:** 

CONTAM OF WATER SOURCES.

**Neutralizing Agent:** 

**Other Precautions:** 

**Flash Point Method:** 

INFO (FP N).

Flash Point:

12F,-11C

N/A

1.2%

7.8%

HCC:

NRC/State LIC No:

**Boiling Point:** 

Melt/Freeze Pt:

M.P/F.P Text:

**Decomp Temp:** 

**Decomp Text:** 

**Vapor Pres:** 

Vapor Density:

**Spec Gravity:** 

**VOC Pounds/Gallon:** 

**VOC Grams/Liter:** 

**Evaporation Rate & Reference:** 

COLORLESS TO LIGHT-YELLOW LIQUID WITH AN AROMATIC ODOR

HEAT, SPKS, FLAMES, OTHER SOURCES OF IGNIT. VAPS MAY BE EXPLO. AVOID OVERHEATING; CONTRS MAY RUPTURE.

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

quarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

STRONG ACIDS, STRONG BASES, NITRIC ACID, STRONG OXIDIZERS. FOR COMPLETE LIST OF MATLS TO AVOID CONT NEHC (FP N).

5.1 (BUTYL ACETATE=1)

Appearance and Odor:

**Percent Volatiles by Volume:** 

Reactivity Data

**Stability Condition To Avoid:** 

TOXIC OXIDES OF CARBON.

**Hazardous Decomposition Products:** 

**Hazardous Polymerization Indicator:** 

**Conditions To Avoid Polymerization:** 

Toxicological Information

**Regulatory Information** 

**Sara Title III Information:** N/P

Federal Regulatory Information: N/P

**State Regulatory Information:** N/P

Other Information

Look for Chemicals

www.lookchem.com

Other Information:N/P

**MSDS Transport Information** 

**Solubility in Water:** 

0.18% @ 25C

**Corrosion Rate:** 

**Stability Indicator:** 

**Materials To Avoid:** 

NOT RELEVANT.

Information:N/P

Information:N/P

0.8765

PH: N/K

Viscosity:

N/P

100

N/K

YES

**Volatile Org Content %:** 

N/K

N/K

2.8

**B.P. Text:** 176F,80C

**Net Prop WT For Ammo:** 

**Flash Point Text:** 

**Autoignition Temp:** 

**Lower Limits:** 

**Upper Limits:** 

**Extinguishing Media:** 

Fire Fighting Procedures:

**Unusual Fire/Explosion Hazard:** 

TO FLAMES UNTIL WELL AFTER FIRE IS (SUP DAT)

FLASH BACK. CONT NEHC FOR MORE INFO (FP N).

Physical/Chemical Properties

**Autoignition Temp Text:** 

CC

(ING 25)

INFORMATION ON FIRST AID PROCEDURES, CONTACT NEHC (FP N). 7

NUMBER: RCRA U019. CONTACT NEHC FOR MORE SPECIFIC INFORMATION (FP N).

Fire and Explosion Hazard Information

ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

INFORMATION CONTACT NEHC (FP N).

**Respiratory Protection:** 

Code: Μ

RTECS: XM7350000 Code:

**Other REC Limits:** 

USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N). FOR MORE SPECIFIC

LOC EXHST/PROCESS ENCLOSURE VENT. EQUIP SHOULD BE EXPLO-PROOF. VENT SHOULD MEET REQS IN 29 CFR

Equipment ANSI APPROVED EMERGENCY EYEWASH & DELUGE SHOWER (FP N). PROTECTIVE (IMPERVIOUS) CLOTHING

FIRE FIGHT PROC: OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZ/WITHDRAW FROM AREA & LET FIRE BURN. WITHDRAW IMMED IN CASE OF RISING SOUND FRO M VENTING SFTY DEVICE/ANY DISCOLORATIONOF TANK. ISOLATE 1/2 MILE ALL DIRECTIONS IF TANK.

ACUTE: INHAL: IRRIT. RINGING IN EARS, NAUS, VOMIT, CHEST PAIN, DFCLTY BRTHG, IRREG HEARTBEAT, HDCH, DROW, DRUNKENESS, DISORIENTATION, NUMBNESS, TWITCHING, BLURRED VISION, LUNG CONGESTION, BLOOD DISORD ERS, PARAL, CONVLS, SHOCK & COMA.

BENZENE: IARC MONOGRAPHS, SUPPLEMENT, VOL 7, PG 120, 1987: GROUP 1. NTP 7TH ANNUAL REPORT ON CARCINOGENS, (ING 24)

PERSONS WITH CERTAIN IMMUNOLOGICAL TENDENCIES, POOR NUTRITION, ANEMIA AND DRUG OR CHRONIC AGRANULOCYTEMIA.

INGESTION: EXTREME CARE MUST BE USED TO PREVENT ASPIRATION. CALL MD IMMEDIATELY (FP N). FOR MORE SPECIFIC

EYES: FLUSH WITH POTABLE WATER FOR AT LEAST 15 MINUTES. SEE MD (FP N). SKIN: FLUSH WITH COPIOUS AMOUNTS OF WATER. SEE MD (FP N). INHALATION: REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE OXYGEN OR ARTI FICIAL RESPIRATION) (FP N).

SHUT OFF IGNIT SOURCES. S LEAK. USE WATER SPRAY TO REDUCE VAPS. SML SPILL: TAKE UP W/ABSORB MATL & PLACE INTO CONTRS FOR DISP. LGE SPILL: DIKE FAR FOR DISP. NO SMKNG, FLAMES/FLARES IN HAZ AREA. KEE P UNNEC PEOPLE AWAY; ISOLATE & RESTRICT

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE. US EPA RCRA HAZARDOUS WASTE

OBSERVE ALL FED, STATE & LOC REGS WHEN STORING. STORE I/A/W 29 CFR 1910.106, & AWAY FROM INCOMPATIBLE MATLS. AVOID

SUBSTANCES W/LOW ELECTROCONDUCTIVITY, WHICH MAY BE IGNITED BY ELECTROSTATIC SPKS, SHOULD BE STORED IN CONTRS WHICH MEET BONDING & GROUNDING GUIDELINES SPECIFIED IN NFPA 77-1983, REC PRACT ON STATIC EL EC. CONT NEHC FOR MORE

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY/REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG/REGULAR FOAM.

WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP (FP N). MOVE CONTR FROM FIRE AREA. APPLY COOLING WATER TO CONTRS EXPOSED

DANGEROUS FIRE HAZE. VAP-AIR MIXS ARE EXPLO. VAPS ARE HVR/AIR & MAY TRAVEL CONSIDERABLE DIST TO SOURCE OF IGNIT &

HLTH HAZ: INHAL: SHORT TERM EFTS & LOW BLOOD PRESS, HEARING LOSS, VISUAL DISTURB & BRAIN DMG. MAY CAUSE REPRO EFTS & CANCER. SKIN: SHORT TERM EFTS & TINGLING SENSATION. EYE: SHORT TERM EFTS & CATARACT S. INGEST: SHORT TERM EFTS &

SKIN/EYE: IRRIT. INGEST: NAUS, VOMIT, CHEST PAIN, HDCH. CHRONIC: (EFTS OF OVEREXP)

ANEMIA, IMPOTENCE. MAY ALSO CAUSE CANCER. TOX INFO: TARGET ORGANS: CNS, BONE (ING 8)