

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-155/15520-10-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

15520-10-2

Code:

M

RTECS:

SA0248500

Code:

M

Name:

1,5-PENTANEDIAMINE, 2-METHYL; (NH₂CH₂CH(CH₃)₂)₂

Other REC Limits:

N/K 4

OSHA PEL:

N/K (FP N)

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

N/K (FP N)

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

IMPORTANT: MUST PROVIDE ADEQUATE VENTILATION TO MAINTAIN VAPOR CONCENTRATIONS BELOW THE ESTABLISHED TLV LIMIT AS GIVEN BY OSHA. IN MORE CONFINED AREAS A NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED W/ORGANIC VAPOR CARTRIDGE SHOULD BE WORN.

Ventilation:

11 MUST PROVIDE ADEQUATE VENTILATION.

Protective Gloves:

RUBBER GLOVES.

Eye Protection:

ANSI APPRVD CHEM WORKERS GOGGS (FP N).

Other Protective Equipment:

Equipment EMERGENCY EYEWASH DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N).

Work Hygienic Practices:

NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health:

CARCIN EXPLAN: 1994: ANTIC TO BE CARCIN. FIRST AID PROC: BELOW HIPS TO PVNT ASPIR OF LIQ INTO LUNGS. NEVER GIVE ANYTHING BY MOUTH TO UNCON PERS. SKIN: FLUSH W/WATER WHILE REMOVING CONTAM CLTHG & SHOES. FOLLOW BY WASHING W/SOAP & WATER. DO NOT REUSE CONTAM CLTHG/SHOES. IF IRRIT PERSISTS, GET MED ATTN.

Health Hazards Data

LD50/LC50 Mixture:

NONE SPECIFIED BY MANUFACTURER.

Route of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute and Chronic:

ACUTE: OVEREXP MAY PRDCE VARIOUS EFTS INCL: ACUTE TOX, RSLTG IN HDCH, DIZZ, NAUS & LOSS OF CONSCIOUSNESS; SEV EYE IRRIT POSS RSLTG IN PERM DMG; IRRIT MUC MEMB; VOMIT DUE TO INGEST; DEFAT & DRYING OF SKIN; SENSIT AFTER RPTD CONT. CHRONIC: RPTS HAVE ASSOC RPTD & PRNG OCCUP OVEREXP TO SOLV W/PERM BRAIN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:

SILICA, CRYSTALLINE-QUARTZ: IARC MONO, SUPP, VOL 7, PG 341, 1987: GROUP 2A. NTP 7TH ANNUAL RPT ON CARCINS, (SUP DAT)

Signs and Symptoms of Overexposure:

HLTH HAZ: & NERV SYS DMG. INTENTIONAL MISUSE BY DELIBERATELY CONC & INHALING CONTENTS MAY BE HARMFUL/FATAL. SILICON DIOXIDE MAY BE RELEASED BY SANDING DRIED PAINT FILM, PRNG OVEREXP DUE TO INHAL MAY CAUSE DELAYED LUNG INJURY/DISEASE (SILICOSIS). WARNING: THIS PRODUCT MAY CONTAIN SOME CHEMICALS KNOWN TO THE (ING 19)

Medical Cond Aggravated By Exposure:

NONE SPECIFIED BY MANUFACTURER.

First Aid:

EYES: FLUSH W/PLENTY OF CLEAN LUKEWARM LOW PRESS WATER FOR AT LEAST 15 MIN, OCCAS LIFTING EYELIDS OPEN. GET MED ATTN. INHAL: REMOVE TO FRESH AIR & PROVIDE OXYGEN IF BRTHG IS DFLCT. GIVE ARTF RESP IF N OT BRTHG. GET MED ATTN. KEEP VICTIM WARM & COMFORTABLE. NEVER GIVE UNCON PERS LIQS. INGEST: CALL MD IMMED. ONLY INDUCE VOMIT ON INSTRUCTIONS OF MD. IF VOMIT OCCURS SPONT, KEEP HEAD (SUP DAT)

Spill Release Procedures:

WARNING: FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. SOAP UP WITH AN ABSORBENT AND PLACE IN NON-LEAKING CONTAINERS. SEAL TIGHTLY FOR PROPER DISP OSAL.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

10 DISPOSAL MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS. CONTACT AN APPROVED DISPOSAL FACILITY.

Handling and Storage Precautions:

TREAT AS HAZARDOUS-FLAMMABLE MATERIAL. KNOW APPLICABLE DOT REGULATIONS BEFORE ATTEMPTING TO TRANSPORT THIS MATERIAL.

Other Precautions:

WARNING: HOT ORG CHEM VAPS/MISTS ARE SUSCEPTIBLE TO SUDDEN SPONT COMBUST WHEN MIXED W/AIR. IGNIT MAY OCCUR AT TEMPS < THOSE PUBLISHED IN LITERATURE AS "AUTOIGNIT"/"IGNIT" TEMPS. IGNIT TEMPS DECR W/INC R VAP VOL & VAP/AIR CONT TIME (ING 14)

Fire and Explosion Hazard Information

Flash Point Method:

SCC

Flash Point:

Flash Point Text:

22.0F,-5.6C

Autoignition Temp:

N/A

Lower Limits:

0.9%

Upper Limits:

N/K

Extinguishing Media:

USE FOAM, CARBON DIOXIDE, OR DRY CHEMICAL.

Fire Fighting Procedures:

WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). WATER MAY BE USED TO KEEP EXPOSED CONTAINERS COOL, AND TO KEEP FLAMMABLE STRUCTURES WET.

Unusual Fire/Explosion Hazard: A FLAMMABLE LIQUID FIRE. SEALED CONTAINERS MAY EXPLODE IF OVERHEATED.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B1P4Text:

>174F,79C

Melt/Freeze Pt:

N/K

Decomp Temp:

N/K

Decomp Text:

N/K

Vapor Pres:

SEE INGS

Vapor/Air Density:

N/K

Volatile Org Content %:

N/K

Spec Gravity:

1.17 (FP N)

VOC Pounds/Gallon:

N/K

PH: N/K

VOC Grams/Liter:

N/K

Viscosity:

N/P 12

Evaporation Rate & Reference:

3.61 X N-BUTYL ACETATE

Solubility in Water:

N/K

Appearance and Odor:

BROWN LIQUID

Percent Volatiles by Volume:

60.8

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid: AVOID HEAT, SPARKS, OPEN FLAMES, AND INCOMPATIBLE MATERIALS.

Materials To Avoid: MAY BE INCOMPATIBLE WITH OXIDIZING AGENTS AND STRONG ALKALIES.

Hazardous Decomposition Products: INCOMPLETE COMBUSTION FOR PRODUCTS LIKE THIS MAY GENERATE HIGHLY POISONOUS CARBON MONOXIDE AND OTHER TOXIC GASES.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT RELEVANT.

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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