

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-108/108-45-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

108-45-2

Code:

M

RTECS:

SS7700000

Code:

M

Name:

M-PHENYLENEDIAMINE

Other REC Limits:

N/P

OSHA PEL:

2 NOT ESTABLISHED

Code:

M

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

0.1 MG/M3; 9192

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

N/P 4

Ventilation:

GENERAL, LOCAL WHERE NEEDED, ESP WHERE VAP CAN ESCAPE

Protective Gloves:

BUTYL/NEOPRENE

Eye Protection:

MONOGOGGLES

Other Protective Equipment:

Equipment APRON, IF DIRECT EXPOS LIKELY, CHEM PROOF SUIT, HOOD, AIR SUPPLY

Work Hygienic Practices:

N/P

Supplemental Safety and Health:

MSDS PREP JAN 14, 86. EYE CONTACT: MOD CORNEAL INJ, GLAUCOMA, BLUE HAZE, HALOS & BLUR VISION. EFFECT GOES AWAY IN FEW HRS BUT PREDISPOSES ONE TO ACCIDENTS, REDUCES ABILITY TO DRIVE CAR. (SEE OTH PRE)

Health Hazards Data

LD50/LC50 Mixture:

N/P

Route Of Entry Inds - Inhalation:

N/P

Skin:

N/P

Ingestion:

N/P

Carcinogenicity Inds - NTP:

N/P

IARC:

N/P

OSHA:

N/P

Health Hazards Acute And Chronic:

N/P

Explanation Of Carcinogenicity:

N/P

Signs And Symptoms Of Overexposure:

INGEST: MOD TOX, BURNS MOUTH, THROAT, ABDOM PAIN, NAUS, VOM, DIARR. SKIN: BURNS, ALLERGIC SKIN RXN. SUPP DATA

Medical Cond Aggravated By Exposure:

N/P

First Aid:

INHAL: REMOVE TO FRESH AIR. CALL MD; SKIN: WASH W/ SOAP & PLENTY WATER. EYE: IMMED FLOOD W/ PLENTY WATER @ LEAST 15 MIN. CALL MD. INGEST: INDUCE VOMIT BY GIVING 2 GLASS WATER & STICKING FINGER DOWN THROAT, CALL MD.

Spill Release Procedures:

AVOID CONTACT W/ LIQ, VAP. SMALL SPILLS CAN BE FLUSHED W/ LG AMTS WATER. LARGER SPILLS SHLD BE COLLECTED FOR DISPOSAL: IF MOLTEN, CONTAIN W/ SAND, EARTH DAM & LET FREEZE, TRANSFER TO COVERED METAL CONTR. AVOID CAUSING DUST, FLUSH AREA W/ DETERG & WATER 3

Neutralizing Agent:

N/P

Waste Disposal Methods:

COMPLY W/ REGS ON REPORTING RELEASES. DO NOT DISCHARGE TO SEWER, WATERWAY. INCINERATE IN FURNACE WHERE PERMITTED BY STATE, FEDERAL, LOCAL REGULATIONS. MAY BE SENT TO APPRVD HAZ MAT DISP AREA OR CONTRACTOR. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGS.

Handling And Storage Precautions:

KEEP CONTAINER CLOSED, AVOID BREATHING VAPOR. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT TAKE INTERNALLY. USE ADEQ VENT. WASH AFTER HANDLING.

Other Precautions:

NOT RECOGNIZED CARCINOGEN, BUT EXPOSURE LIMITS NOT ESTABLISHED. OVEREXPO: INHAL: IRRIT. MAY CAUSE NAUS, VOMIT, AND SENSITIZATION OF RESP TRACT, ASTHMATIC RESPONSE.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

N/P

Flash Point Text:

245, 118C TOC

Autoignition Temp:

N/P

Autoignition Temp Text:

N/A

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

WATER, CO₂, FOAM

Fire Fighting Procedures:

SCBA & PROT CLOTHING. OXIDES OF NITROGEN WILL BE EVOLVED.

Unusual Fire/Explosion Hazard:

MAY PRODUCE FLOATING FIRE HAZARD AND EXTREME FIRE CONDITIONS

Physical/Chemical Properties

HCC:

B2

NRC/State LIC No:

N/R

Net Prop WT For Ammo:

N/P

Boiling Point:

N/P

B.P. Text:

4/3F, 245C

Melt/Freeze Pt:

N/P

N.P./F.P. Text:

N/A

Decomp Temp:

N/P

Decomp Text:

N/A

Vapor Pres:

0

Vapor Density:

N/P

Volatile Org Content %:

N/A

Spec Gravity:

1.045

VOC Pounds/Gallon:

N/P

PH:

N/D 5

VOC Grams/Liter:

N/P

Viscosity:

N/P

Evaluation Rate & Reference:

0.01(BUAC)

Solubility in Water:

35%(WT-25)

Appearance and Odor:

APPEAR: AMBER LIQUID, AMMONIACAL ODOR

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/P

Reactivity Data:

YES

Stability Indicator:

YES

Stability Condition To Avoid:

NONE(PER MFR)

Materials To Avoid:

ACIDS, OXIDIZERS, ALDEHYDES, ORGANIC HALIDES

Hazardous Decomposition Products:

CO, CO₂, NITROGEN OXIDES

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/R(PER MFR)

Toxicological Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information: