

M-PHENYLENEDIAMINE

MSDS Number

BCDKB

National Stock Number

6810-00K001657

Product Name

M-PHENYLENEDIAMINE

Manufacturer

DU PONT E I DE NEMOURS AND CO INC

Product Identification

Product ID:M-PHENYLENEDIAMINE

MSDS Date:11/21/1995

FSC:6810

NIIN:00K001657

MSDS Number: BCDKB

Responsible Party

DU PONT E I DE NEMOURS & CO INC

1007 MARKET STREET

WILMINGTON , DE 19898

US

Emergency Phone: 800-441-3637/800-424-9300(CHEMTREC)

Info Phone: 800-441-9442/302-999-4946

Cage: 18873

Contractor

E.I. DUPONT DE NEMOURS & CO

WILMINGTON, DE 19898

US

800-441-7515;800-441-9442

Cage: 18873

Ingredients

M-PHENYLENEDIAMINE

CAS: 108-45-2

RTECS: SS7700000

Fraction By Weight: 99.9%

ACGIH TLV: 0.1 MG/M3; 9596

Hazards

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 650 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY

& GI TRACTS. ACUTE- MAY IRRITATE SKIN, EYES, NOSE & THROAT. MAY

CAUSE ALLERGIC SKIN RASHES. MAY PERMEATE SKIN IN TOXIC AMOUNTS.

INHALATION MAY CAUSE RESPIRATORY S ENSITIZATION, LIVER & KIDNEY

EFFECTS. HARMFUL IF SWALLOWED. CHRONIC- LONG-TERM EXPOSURE MAY

CAUSE BLADDER INFLAMMATION.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, NAUSEA, VOMITING, ABDOMINAL

PAIN, TEARING, BLURRED VISION, SHORTNESS OF BREATH, HEADACHE, WEAKNESS, RUNNY NOSE, COUGH AND ASTHMA-LIKE REACTIONS SUCH AS WHEEZING

Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid

First Aid: CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN. SKIN: WASH WITH SOAP & WATER. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL: IF CONSCIOUS, DRINK WATER & INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

Fire Fighting

Flash Point Method: TOC
Flash Point: 280F, 138C
Autoignition Temp: Autoignition Temp Text: 1040F
Extinguishing Media: USE DRY CHEMICAL, CARBON DIOXIDE FOR SMALL FIRE. USE FOAM, WATER SPRAY OR FOG FOR LARGE FIRE.
Fire Fighting Procedures: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODUCTS MAY BE FORMED. RUN-OFF MAY CAUSE POLLUTION.
Unusual Fire/Explosion Hazard: POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES. FIRE OR HIGH TEMPERATURES CAN CAUSE DECOMPOSITION.

Accidental Release

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA. CAREFULLY SWEEP, SCOOP OR PICK UP SPILLED MATERIAL. AVOID RAISING DUST. TRANSFER TO A SUITABLE CONTAINER FOR REUSE/DISPOSAL. IF MOLTEN, ALLOW TO SOLIDIFY. WASH SPILL AREA WITH WATER AND DETERGENT.
Neutralizing Agent: NOT RELEVANT

Handling

Handling and Storage Precautions: STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM OXIDIZERS, FOOD & FEED. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN.
Other Precautions: AVOID BREATHING DUSTS, VAPORS OR MISTS. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT STORE OR CONSUME FOOD, DRINK OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL.

Exposure Controls

Respiratory Protection: IF AIRBORNE CONCENTRATIONS ARE HIGH, A NIOSH-APPROVED RESPIRATOR WITH A HIGH EFFICIENCY DUST FILTER (HEPA) AND ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE USED.
Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP DUST AND VAPOR CONCENTRATIONS AS LOW AS POSSIBLE.
Protective Gloves: LATEX
Eye Protection: SAFETY GLASSES/CHEMICAL GOGGLES
Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, PROTECTIVE CLOTHING
Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.
Supplemental Safety and Health
NOTE TO PHYSICIAN: IN SEVERE OVEREXPOSURE, DEATH MAY BE RAPID DUE TO ACUTE RESPIRATORY DISTRESS. LESS SEVERE CASES HAVE RESPONDED TO CORTICOSTEROIDS AND ANTIHISTAMINES; MORE SEVERE CASES HAVE REQUIRED TRACHEOSTOMY.

Chemical Properties

HCC: T4
NRC/State Lic Num: NOT RELEVANT

Boiling Pt: B.P. Text: 541F, 283C
Melt/Freeze Pt: M.P/F.P Text: 145F, 63C
Vapor Pres: 0.0018@77F
Vapor Density: 3.7
Spec Gravity: 1.14
pH: 9.2
Viscosity: NOT RELEVANT
Evaporation Rate & Reference: Solubility in Water: 35% @ 77F/25C
Appearance and Odor: LIGHT GREEN TO OFF-WHITE SOLID; SLIGHT AROMATIC ODOR

Stability

Stability Indicator/Materials to Avoid: YES
STRONG OXIDIZING AGENTS
Stability Condition to Avoid: EXCESSIVE HEAT WITH MOIST AIR
Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION IS RECOMMENDED.

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