



TDT 177-39 HARDNER

MSDS Number

BBFRH

National Stock Number

6850-00F000015

Product Name

TDT 177-39 HARDNER

Manufacturer

CIBA GEIGY CORP REN PLASTICS DIV

Product Identification

Product ID:TDT 177-39 HARDNER

MSDS Date:01/01/1985

FSC:6850

NIIN:00F000015

MSDS Number: BBFRH

Responsible Party

CIBA-GEIGY CORP REN PLASTICS DIV

4917 DAWN AVE

EAST LANSING , MI 48823-5605

US

Emergency Phone: 517-351-5900

Info Phone: 517-351-5900 / FAX 517-351-9003

Preparer: DGSC-SSH

Cage: 02684

Contractor

CIBA SPECIALTY CHEMICALS CORPORATION

EAST LANSING, MI 48823-5691

US

517-351-5900

Cage: 02684

Ingredients

M-PHENYLENEDIAMINE

CAS: 108-45-2

RTECS: SS7700000

Fraction By Weight: 45% %

ACGIH TLV: 0.1 MG/M3; 9192

4,4'-METHYLENE DIANILINE (SARA III)

CAS: 101-77-9

RTECS: BY5425000

Fraction By Weight: 30% %

ACGIH TLV: S, 0.1 PPM; A2; 9394

EPA Report Quantity: 1 LB



DOT Report Quantity: 1 LB

Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:TOXIC BY INHALATION AND SKIN CONTACT.
SUSPECTED HUMAN CARCINOGEN. MAY CAUSE EYE IRRITATION, SKIN
IRRITATION, RESPIRATORY TRAQCT IRRITATION.
Explanation of Carcinogenicity:PRODUCT CONTAINS MDA (101-77-9) WHICH IS
LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.
Effects of Overexposure:FEVER, CHILLS, ANOREXIA, VOMITING. MAY CAUSE
TRANSIENT LIVER DAMAGE AND CYANOSIS, EYE IRRITATION, SKIN
IRRITATION, RASHES, RESPIRATORY TRACT IRRITATION.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR, ADMINISTER ASSISTED
RESPIRATION IF NECESSARY. INGESTION: IF CONSCIOUS, GIVE WATER TO
DRINK. INDUCE VOMITING, CALL PHYSICIAN. SKIN: WASH WITH SOAP AND
WATER. EYES: FLUS H WITH WATER FOR AT LEAST 15 MINUTES. CALL
PHYSICIAN. NOTE: CONTAMINATED CLOTHING SHOULD BE CLEANED OR
REPLACED BEFORE REUSE.

Fire Fighting

Flash Point Method:OC
Flash Point:>350F,>177C
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing Media:DRY CHEMICAL, FOAM, CARBON DIOXIDE, WATER
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND
FULL FACE-PIECE SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

Accidental Release

Spill Release Procedures:REMOVE SPILLAGE BY ABSORBING IN SAND OR
ABSORBENT SWEEPING COMPOUND, DISPOSE IF IN CSED CONTAINER. FLUSH
CONTAMINATED AREA WITH WATER; COLLECT WATER FOR PROR DISPOSAL.
AVOID CONTACT. CLEANUP PERSONNEL MUST WEAR PROPER PROTECTIVE
EQUIPMENT.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:DANGER CANCER SUSPECT AGENT.
PROLONGED OR REPEATED CONTACT OF LIQUID OR BREATHING OF VAPORS OR
DUSTS MAY CAUSE DELAYED OR SERIOUS INJURY.
Other Precautions:HARMFUL IF ABSORBED THROUGH SKIN, IF INHALED, OR IF
SWALLOWED. CAUSES IRRITATION. MAY CAUSE ALLERGIC RESPONSES. DO NOT
GET ON SKIN, IN EYES, OR ON CLOTHING. STORE IN ORIGINAL SEALED
CONTAINER.

Exposure Controls

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION
EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER
CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR
SELECTION.
Ventilation:ACCORDING TO ACGIH DESIGN STANDARDS
Protective Gloves:IMPERVIOUS
Eye Protection:SPLASH PROOF GOGGLES
Other Protective Equipment:APPROPRIATE CLOTHING (APRONS, COVERALSS,
GLOVES, FACE SHIELDS, GOGGLES, ETC) TO PREVENT DERMAL EXPOSURE.
Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT
AND BEFORE EATING DRINKING OR SMOKING.
Supplemental Safety and Health
MSDS UPDATED BY DGSC-SSH TO REFLECT OSHA'S MORE STRINGENT STANDARDS FOR
MDA. USER SHOULD CONSULT LOCAL SAFETY OFFICE FOR SPECIFIC DETAILS
OF WORK PRACTICES, MEDICAL SURVEILLANCE AND HOUSEKEEPING PROCE



DURES FOR MDA EXPOSURES.

Chemical Properties

HCC:T7

Boiling Pt:B.P. Text:>350F,>177C

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEDN

Vapor Pres:7.1

Vapor Density:>1

Spec Gravity:1.17

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:PARTIAL

Appearance and Odor:MEDIUM AMBER CLEAR LIQUID WITH AMMONICAL ODOR.

Percent Volatiles by Volume:NIL

Stability

Stability Indicator/Materials to Avoid:YES

OXIDIZING AND LEWIS ACIDS, METAL-ORGANIC COMPOUNDS

Stability Condition to Avoid:EXPOSURE TO EXCESSIVE HEAT FOR LONG

PERIODS OF TIME .

Hazardous Decomposition Products:CARBON MONOXIDE AND/OR CARBON DIOXIDE,
NITROGEN OXIDES.

Disposal

Waste Disposal Methods:CONSULT QUALIFIED LOCAL OR CORPORATE PERSONNEL
FOR METHOD THAT WILL COMPLY WITH LOCAL, STATE, AND FEDERAL HEALTH
AND ENVIRONMENTAL REGULATIONS.

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