

D-113 DESMODUR N-100

MSDS Number

CDCDX

National Stock Number

6850-00F052861

Product Name

D-113 DESMODUR N-100

Manufacturer

BAYER CORP PROD SAFETY AND REGULATORY AFFAIRS

Product Identification

Product ID:D-113 DESMODUR N-100

MSDS Date:03/28/1996

FSC:6850

NIIN:00F052861

MSDS Number: CDCDX

Responsible Party

BAYER CORP PROD SAFETY & REGULATORY AFFAIRS

100 BAYER RD

PITTSBURGH , PA 15205-9741

US

Emergency Phone: 412-923-1800/412-777-2725

Info Phone: 800-662-2927

Preparer: B J GAMBINO

Cage: GO657

Contractor

BAYER CORPORATION

PITTSBURGH, PA 15205-9741

US

800-662-2927; 202-483-7616

Cage: 19511

Ingredients

ALIPHATIC POLYISOCYANATE, HEXAMETHYLENE DIISOCYANATE

CAS: 28182-81-2

RTECS: NQ9170000

Fraction By Weight: 99.3%

HEXAMETHYLENE DIISOCYANATE

CAS: 822-06-0

RTECS: MO1740000

Fraction By Weight: 0.7%

ACGIH TLV: 0.005 PPM

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

Hazards

LD50 LC50 Mixture:ORAL LD50(RATS): 10000 MG/KG (SEE SUPP)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: IRRITATE & BURN THE NOSE, THROAT, LUNGS & MUCOUS MEMBRANES OF THE RESPIRATORY TRACT. EXPOSURE MAY LEAD TO BRONCHITIS, BRONCHIAL SPASM & PULMONARY EDEMA. OVEREXPOSURE TO ISOCYANATES CAUSES LUNG DAMAGE & SENSITIZATION. SKIN: IRRITATION & SENSITIZATION. EYES: IRRITATING & CORNEAL OPACITY. (SEE SUPP)
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, BURNING SENSATION, RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH, REDUCED LUNG FUNCTION, ASTHMA ATTACK, FEVER, CHILLS, CHEST TIGHTNESS, WHEEZING, COUGH, DECREASE IN LUNG FUNCTION, REDDENING, SWELLING,RASH, SCALING, BLISTERING, PAIN, TEARING, STINGING SENSATION, CLOUDING.
Medical Cond Aggravated by Exposure:ASTHMA & OTHER RESPIRATORY DISORDERS (BRONCHITIS, EMPHYSEMA, HYPERREACTIVITY), SKIN ALLERGIES, ECZEMA.

First Aid

First Aid:EYES: FLUSH W/CLEAN, LUKEWARM WATER FOR 15 MINS. SKIN: WASH THOROUGHLY W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. ASTHMATIC-TYPE SYMPTOMS MAY DEVELOP/MAY BE DELAYED UP TO SEVERAL HOURS. TREATMENT IS SYMPTOMATIC. INGESTION: DON'T INDUCE VOMITING. GIVE 1-2 CUPS OF MILK/WATER TO DRINK. DON'T GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS/CONVULSING PERSON. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Fire Fighting

Flash Point Method:SCC
Flash Point:375F
Extinguishing Media:DRY CHEMICAL, CO2, FOAM. LARGE FIRES: WATER SPRAY.
Fire Fighting Procedures:USE FULL EMERGENCY EQUIPMENT W/SCBA & FULL PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT/BURST WHEN CONTAMINATED W/WATER; TOXIC GASES/FUMES ARE GIVEN OFF DURING BURNING/THERMAL DECOMPOSITION.

Accidental Release

Spill Release Procedures:EVACUATE PERSONNEL. REMOVE SOURCES OF IGNITION & VENTILATE AREA. NOTIFY APPROPRIATE AUTHORITIES IF NECESSARY. USE PERSONAL PROTECTIVE EQUIPMENT. DIKE/IMPOUND IF FEASIBLE.
VERMICULITE FULLER'S EARTH/OTHER ABSORBENT MATERIAL. (SEE SUPP)
Neutralizing Agent:TERGITOL TMN-10(20%); WATER(80%); AMMONIA(3-8%); DETERGENT(2%); WATER(90-95%).

Handling

Handling and Storage Precautions:STORE AT TEMPS <-30F/>122F. SHELF LIFE STORAGE IS 6 MONTHS AT 77F. STORE IN TIGHTLY CLOSED CONTAINERS TO PREVENT MOISTURE CONTAMINATION.
Other Precautions:DON'T RESEAL IF CONTAMINATED. AT MAXIMUM STORAGE TEMPS, MATERIAL MAY SLOWLY POLYMERIZE W/O HAZARD. IDEAL STORAGE TEMP RANGE OF HANDLING IS 50-81F. AVOID CONTACT W/SKIN & EYES. EDUCATE & TRAIN EMPLOYEES IN SAFE USE OF PRODUCT.

Exposure Controls

Respiratory Protection:FOR SPRAY APPLICATIONS, AIR PURIFYING/FRESH AIR SUPPLIED MAY BE NECESSARY. A SUPPLIED AIR RESPIRATOR(EITHER POSITIVE PRESSURE/CONTINUOUS FLOW TYPE)IS RECOMMENDED. BEFORE AN AIR PURIFYING RESPIRATOR IS USED, AIR MONITORING MUST BE PERFORMED.
Ventilation:EXHAUST AIR: MAY BE CLEANED BY SCRUBBERS/FILTERS. CURING OVENS: TO PREVENT EMISSIONS INTO THE WORKPLACE.
Protective Gloves:PERMEATION RESISTANT

Other Protective Equipment: APPROPRIATE CLOTHING, SKIN CREAMS, SAFETY SHOWERS, EYEWASH STATIONS.

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

VAPOR PRESSURE-POLYISOCYANATE: 70. HLTH HZRD-INGESTION: IRRITATION & CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE & DIGESTIVE TRACT.

SPIILLS: POUR DECONTAMINATION SOLUTION & ALLOW TO REACT FOR 10 MINS

. COLLECT IN OPEN CONTAINERS & ADD SOLUTION. REMOVE CONTAINERS, COVER LOOSELY & ALLOW TO STAND FOR 24 TO 48 HOURS.

Chemical Properties

Boiling Pt: B.P. Text: 382F

Vapor Pres: (SEE SUPP)

Spec Gravity: 1.14

Solubility in Water: INSOLUBLE

Appearance and Odor: CLEAR/PALE YELLOW LIQUID; ODORLESS

Percent Volatiles by Volume:

Stability

Stability Indicator/Materials to Avoid: YES

WATER, AMINES, STRONG BASES, ALCOHOLS, METAL COMPOUNDS & SURFACE ACTIVE MATERIALS.

Stability Condition to Avoid: MOISTURE, HEAT.

Hazardous Decomposition Products: BY HIGH HEAT & FIRE: CO₂, CO, OXIDES OF NITROGEN, HYDROGEN CYANIDE, HEXAMETHYLENE DIISOCYANIDE.

Conditions to Avoid Polymerization: CONTACT W/MOISTURE/OTHER MATERIALS WHICH REACT W/ISOCYANATES/TEMPS >400F MAY CAUSE POLYMERIZATION.

Disposal

Waste Disposal Methods: DISPOSE/INCINERATE IAW/FEDERAL, STATE & LOCAL REGULATIONS. EMPTY CONTAINERS MUST BE HANDLED W/CARE DUE TO PRODUCT RESIDUE. DECONTAMINATE CONTAINERS PRIOR TO DISPOSAL. DON'T HEAT/CUT EMPTY CONTAINER W/ ELECTRIC/GAS TORCH. NA 3082.

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