

MIL-C-46168D PART B 4:1 BLEND

MSDS Number

BHBFN

National Stock Number

8010-01-260-7481

Product Name

MIL-C-46168D PART B 4:1 BLEND

Manufacturer

NILES CHEMICAL PAINT CO

Product Identification

Product ID:MIL-C-46168D PART B 4:1 BLEND

MSDS Date:03/05/1990

FSC:8010

NIIN:01-260-7481

Kit Part:Y

MSDS Number: BHBFN

Responsible Party

NILES CHEMICAL PAINT CO

225 FORT STREET

NILES , MI 49120

US

Emergency Phone: 219-236-5856

Info Phone: 616-683-3377

Preparer: MICHAEL J. LICHATOWICH

Cage: 02388

Contractor

NILES CHEMICAL PAINT

307

NILES, MI 49120

US

616-683-3377/219-236-5856

Cage: 02388

Ingredients

HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (HDI)

CAS: 28182-81-2

RTECS: NQ9170000

Fraction By Weight: 75%

1,6-DIISOCYANATOHEXANE (HEXAMETHYLENE DIISOCYANATE)

CAS: 822-06-0

RTECS: MO1740000

Fraction By Weight:

ACGIH TLV: 0.005 PPM; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

XYLENES (O-,M-,P- ISOMERS) (SARA III)

CAS: 1330-20-7

RTECS: ZE2100000

Fraction By Weight: 12.5%

OSHA PEL100 PPM/150 STEL

ACGIH TLV: 100 PPM/150STEL;9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

N-BUTYL ACETATE (SARA III)

CAS: 123-86-4

RTECS: AF7350000

Fraction By Weight: 12.5%

OSHA PEL150 PPM/200 STEL

ACGIH TLV: 150 PPM/200STEL;9192

EPA Report Quantity: 5000 LBS

DOT Report Quantity: 5000 LBS

Hazards

LD50 LC50 Mixture:ORAL LD50: 20G/KG (RAT)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:EYE, SKIN & RESPIRATORY TRACT IRRITATION. BRONCHITIS, BRONCHIAL SPASM, PULMONARY EDEMA, CHEMICAL PNEUMONITIS MAY BE CAUSED BY OVEREXPOSURE. INHALATION OF CONCENTRATED SOLVENT VAPORS CAN RESULT IN PERM ANENT BRAIN AND NERVOUS SYSTEM DAMAGE OR DEATH. CHRONIC: ISOCYANATE SENSITIZATION MAY DEVELOP FROM REPEATED EXPOSURE.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION. INHALATION OF HIGH CONCENTRATIONS OF VAPORS MAY CAUSE CNS EFFECTS CHARACTERIZED BY HEADACHE, WEAKNESS, DIZZINESS, INCOORDINATION & POSSIBLE COLLAPSE . BREATHING MAY BE DIFFICULT. INGESTIONMAY CAUSE NAUSEA, VOMITING, & DIARRHEA. MAY BE CORROSIVE TO MUCOUS MEMBRANES.

Medical Cond Aggravated by Exposure:ASTHMA, RESPIRATORY DISORDERS SUCH AS BRONCHITIS, EMPHYSEMA, AND HYPERREACTIVITY; SKIN ALLERGIES AND ECZEMA.

First Aid

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT BREATHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. EYE: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELID. OBTAIN MED ICAL ATTENTION IMMEDIATELY. SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK WATER TO DILUTE. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

Fire Fighting

Flash Point Method:PMCC

Flash Point:91.0F,32.8C

Lower Limits:1.0%

Upper Limits:7.6%
Extinguishing Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE. ISOLATE FROM HEAT, SPARKS & OPEN FLAME.
Unusual Fire/Explosion Hazard:MATERIAL IS HIGHLY VOLATILE & READILY GIVES OFF VAPORS WHICH MAY TRAVEL TO DISTANT IGNITION SOURCES & FLASH BACK. CLOSED CONTAINERS IN HEAT OF FIRE MAY EXPLODE.

Accidental Release

Spill Release Procedures:EVACURATE AREA. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA. DIKE TO RETAIN RUNOFF. COVER WITH INERT ABSORBENT. POUR DECONTAMINATION SOLUTION OVER SPILL & ALLOW TO REACT. PLACE IN OPEN CONTAINER & ALLOW TO STAND FOR 24 HRS. DECONTAMINATE AREA.
Neutralizing Agent:AMMONIA 3-8%, DETERGENT 2%, WATER 90-95%

Handling

Handling and Storage Precautions:STORE BETWEEN -30F & 122F. HIGH HEAT MAY CAUSE PRESSURE TO RUPTURE CONTAINER EXPLOSIVELY. KEEP AWAY FROM HEAT, SPARKS & OPEN FLAMES. 12 MO SHELF LIFE.
Other Precautions:KEEP AWAY FROM HEAT/SPARKS/OPEN FLAME. GROUND CONTAINER DURING STORAGE/TRANSFER OPERATION. DON'T RESEAL IF CONTAMINATION SUSPECTED. AVOID CONTACT W/SKIN & EYES. IF CONTAINER IS EXPOSED TO HIGH HEAT, C AN BE PRESSURIZED/RUPTURE EXPLOSIVELY.

Exposure Controls

Respiratory Protection:RESPIRATOR THAT IS RECOMMENDED/APPROVED FOR USE IN ISOCYANATE CONTAINING ENVIRONMENTS (AIR PURIFYING/FRESH AIR SUPPLIED) MAY BE NECESSARY.
Ventilation:SUFFICIENT LOCAL & MECHANICAL(GENERAL) VENTILATION TO KEEP SOLVENT, HDI, & POLYISOCYANATE VAPORS BELOW THEIR TLV'S.
Protective Gloves:CHEMICAL RESISTANT GLOVES.
Eye Protection:SPLASH-PROOF GOGGLES AND FACE SHIELD.
Other Protective Equipment:WEAR INDUSTRIAL-TYPE WORK CLOTHING AND SAFETY FOOTWEAR. HEAD/NECK COVER, APRONS, JACKETS, PANTS, COVERALLS, AND BOOTS.
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
Supplemental Safety and Health
THIS IS A TWO PART PRODUCT. EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUE INCLUDING FLAMMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND OR WELD ON OR NEAR FULL, PARTIALLY FULL OR EMPTY PRODUCT CONTAINERS.

Chemical Properties

HCC:F3
Vapor Density:>1
Spec Gravity:1.06
Viscosity:183 MPAS @20C
Evaporation Rate & Reference:SLOWER THAN ETHER
Solubility in Water:NEGLIGIBLE/REACTS
Appearance and Odor:CLEAR TO PALE YELLOW LIQUID/SOLVENT ODOR
Percent Volatiles by Volume:30

Stability

Stability Indicator/Materials to Avoid:YES
MOISTURE(WATER), AMINES, STRONG ALKALI, ALCOHOLS, METAL COMPOUNDS AND SURFACE ACTIVE MATERIALS.
Stability Condition to Avoid:MOISTURE, HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES; SHOCK FROM DROPPING.
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, TRACES OF HNC AND HDI.
Conditions to Avoid Polymerization:CONTACT WITH MOISTURE OR OTHER MATERIALS WHICH REACT WITH ISOCYANATES. MAY OCCUR AT TEMPERATURES OVER 400F.

Disposal

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. HAZARDOUS PRODUCT RESIDUE AND FLAMMABLE SOLVENT VAPOR MAY BE IN "EMPTY" CONTAINER. DECONTAMINATE CONTAINER PRIOR TO DISPOSAL. KEEP "EMPTY" AWAY FROM HEAT, SPARKS OR OPEN FLAMES.

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