

MIL-C-46168 PART B 4:1 BLEND

MSDS Number

BHNFR

National Stock Number

8010-01-144-9873

Product Name

MIL-C-46168 PART B 4:1 BLEND

Manufacturer

NILES CHEMICAL PAINT COMPANY

Product Identification

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

MSDS Date:11/17/1988

FSC:8010

NIIN:01-144-9873

Kit Part:Y

MSDS Number: BHNFR

Responsible Party

NILES CHEMICAL PAINT COMPANY

225 FORT STREET

NILES , MI 49120

US

Emergency Phone: 219-236-5856 (24 HOURS)

Info Phone: 616-683-3377 (INFORMATION)

Preparer: MIKE LICHATOWICH

Cage: 02388

Contractor

NILES CHEMICAL PAINT

307

NILES, MI 49120

US

616-683-3377/219-236-5856

Cage: 02388

Ingredients

HOMOPOLYMER OF HDI

CAS: 28182-81-2

RTECS: NQ9170000

Fraction By Weight: 75%

1,6-DIISOCYANATOHXANE (HEXAMETHYLENE DIISOCYANATE)

CAS: 822-06-0

RTECS: MO1740000

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

VOC. ORGANIC CMPD 2.21 LB/GAL LESS WATER & NPRS* (NK) G/L

RTECS: 9999999VO

Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:INHALE:IRR MUCOUS MEMBRANES CAUSE
RUNNY NOSE,SORE THRT,COUGH,CHEST DISCOMFORT, SHRT BREATH,REDUCED
LUNG FUNC,ASTHMA ATTACK,BRONC,BRONC SPASM,PULMONARY EDEMA,
ISOCYANATE SENSI,LUNG DAM,NEUROTOXI EFFE
CTS.SKIN:IRR,RED,SWELL,RASH,SCALE,BLIST,SKIN
SENSI,DRY,DEFAT,CRACK,SAME AS
INHALE.EYES:IRR,TEAR,RED,SWELL.INGEST:IRRIT.
Effects of Overexposure:INGEST:IRR&POSS CORROSIVE,MOUTH,STOMACH,GI
TRACT.INHALE:CHEST TIGHT,WHEEZE,COUGHSHRT BREATH,ASTHMA,LUNG
SENSITIVITY,PERM BRAIN/NERVOUS DAMAGE.SKIN:RED,SWELL
RASH,SCALE,BLISTER,SKIN SENSITIZATION. C HRONIC SKIN EXPOS CAN
CAUSE SYMPTOMS TOTHOSE SAME AS INHALE. EYES: STINGING, FEELING OF
FINE DUST IN EYES.

Medical Cond Aggravated by Exposure:TARGET ORGANS:RESP SYSTEM,CENTRAL
NERVOUS SYST,EYEGI TRACT,BLOOD,LIVER,KIDNEYS,SKIN.
ASTHMA,BRONCHITIS,EMPHYSEMA,HYPERREACTIVITY,SKIN ALLERGIES,AND
ECZEMA.

First Aid

First Aid:INHALE:MOVE FROM EXPOSE.GIVE OXYGEN/CPR.GET MED
ATTN.ASTMATIC SYMP MAY BE IMMEDOR DELAYED.SKIN:REMOVE
CLOTHING.WASH AREA W/SOAP&WATER. WASH CLOTH. GET MED ATTNIF IRR
DEV. EYE: FLUSH W/LUKEWARM, WATER FOR 15 MIN. LIFTING LIDS. GET
MED ATTN.INGEST: DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY
MOUTH TO UNCONSCIOUS PERSON. CONSULT PHYSICIAN.

Fire Fighting

Flash Point Method:PMCC

Flash Point:91 F/ 33 C

Lower Limits:1.0
Upper Limits:7.6
Extinguishing Media:FOAM, "ALCOHOL" FOAM, CO2, DRY CHEMICAL
Fire Fighting Procedures:FULL EMERG'Y EQUIP W/SELF-CONT BREATH APPARATUS. FULL PROT CLOTH. KEEP FROM HEATELECT EQUIP,SPARKS,OPEN FLAME.CLSD CONT MAY EXPLODE WHEN EXPO'D TO EXTREME HEAT,
Unusual Fire/Explosion Hazard:CLSD CONT MAY BURST IF CONTAMIN'D W/WTR.VAPORS >AIR,TRVL TO IGN SOURCE WHICH MAYRESULT IN FLASHBACK.HDI VAPORS MAY BE GENERATED BY THERMAL DECOMP/COMBUSTION.

Accidental Release

Spill Release Procedures:EVACUATE.REMOVE SRCE IGN,VENT.DIKE/IMPOUND MAT. NOTIFY AUTHOR IF NEC.COVER W/SAWDUST,VERMICULITE, ETC.POUR DECONTAM SOL OVER AREA LET REACT 10 MIN. COLLECT MATERIAL, COVER LOOSELY, LET STAND FOR 24 TO 48 HOURS.WASH W/DECONTAM SOLUTIONS.
Neutralizing Agent:CONCENTR'D AMM(3-8%),DETERGENT(2%)WTR(90-95%).TERGITOL(20%)WTR(80%)AMM(3%)DET(2)

Handling

Handling and Storage Precautions:STORE TEMPS 32F(0C)MIN/122F(50C)MAX.SELF LIFE:12 MONTHS @77F(25C).
Other Precautions:IF CONTAINER IS EXPOSED TO HIGH HEAT,IT CAN BE PRESSURIZED AND POSSIBLY RUPTURE EXPLOSIVELY. HDI REACTS SLOWLY WITH WATER TO FORM CO2 GAS.THIS GAS CAN CAUSE SEALED CONTAINERS TO EXPAND & POSSIBLY RUPTURE EXPLOSIVELY.

Exposure Controls

Respiratory Protection:FRESH AIR RESPIRATOR FOR ISOCYANATE ENVIR MAY BE NEEDED.IF AIRBORNE ISOCYANATE MONOMER CONC ARE BELOW 0.2PPM/POLYISOCYANATE CONC BELOW 10MG/M3 WEAR AIR PURIFY RESP.WHEN NOT KNOWN/SPRY IN CONFINED SPA CE,MANDATORY THAT RESPIRATOR BE WORN.
Ventilation:EXHAUST VENT SUFF TO KEEP AIRBORNE CONC OF SOLV,HDI,POLYISO-CYANATE BELOW TLV'S.MAY NEED TO BE CLN'D BY SCRUBBERS/FILTER
Protective Gloves:CHEMICAL RESISTANT GLOVES.
Eye Protection:SAFETY GLASSES,SPLASH GOGGLES,FACESHIELD
Other Protective Equipment:COVER AS MUCH OF THE EXPOSED SKIN AS POSSIBLE.SAFETY SHOWERS& EYEWASH STATION SHOULD BE AVAIL. SHOULD BE EDUC/TRAINED.
Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING AND BEFORE USING REST- ROOMS. SMOKE ONLY IN SMOKING AREAS.
Supplemental Safety and Health
SYMP CAN BE DELAYED UP TO SEVERAL HRS.CONTACT LENSES SHOULD NOT BE WORN.KEEP FROM HEAT,SPRK,OPN FLAME.GRND CONT DURING STORAGE&TRANS OPER.STORE IN TIGHTLY CLSD CONT TO PREVENT MOIST CONTAM.DONT RESEAL IF CONTAM SUSP'D.AVOID CONTACTWITH SKIN,EYES.EMPLOYEE EDUC&TRAIN IN SAFE USE/HANDLING OF THIS PRODUCT REQ'D.

Chemical Properties

Vapor Density:>AIR
Viscosity:MPAS@20C 183
Evaporation Rate & Reference:SLOWER THAN ETHER
Solubility in Water:INSOLUBLE/REACT WTR
Appearance and Odor:CLEAR TO PALE YELLOW LIQUID/SOLVENT ODOR
Percent Volatiles by Volume:CA 30

Stability

Stability Indicator/Materials to Avoid:YES
WATER,AMINES,STRONG BASES,ALCOHOLS,METAL COMPOUNDS AND SUR- FACE ACTIVE MATERIALS.
Stability Condition to Avoid:THIS MATERIAL HAS BEEN FOUND TO BE STABLE UNDER REASONABLE CONDITONS OF STORAGE AND USE.
Hazardous Decomposition Products:HIGH HEAT FIRE:CARBON DIOXIDE,CARBON

MONOXIDE,OXIDES OF NIT-ROGEN, TRACES OF HNC AND HDI.
Conditions to Avoid Polymerization:MAY OCCUR IF IN CONTACT WITH
MOISTURE OR OTHER MAT WHICH REACT W/ISOCYANATES. MAY OCCUR AT
TEMPS OVER 400F (204C).

Disposal

Waste Disposal Methods:HANDLE EMPTY CONT W/CARE.DECONT CON PRIOR TO
DISP.DISPOSE OF IN ACCORD W/FEDERAL,STATE,LOCAL ENVIR CONTROL
REGS.DO NOT HEAT,CUT,ON OR NEAR EMPTY CONTAINERS WITH ELECT/GAS
TORCH.

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