

NILES CHEMICAL PAINT CO -- MIL-C-46168D PART B 4 TO 1 BLEND -- 8010-01-306-9680

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

MSDS Date:04/04/1990

FSC:8010

NIIN:01-306-9680

Kit Part:Y

MSDS Number: BMXLQ

=== Responsible Party ===

Company Name:NILES CHEMICAL PAINT CO

Address:225 FORT STREET

Box:307

City:NILES

State:MI

ZIP:49120

Country:US

Info Phone Num:611-683-3377

Emergency Phone Num:219-236-5856

Preparer's Name:MICHAEL J LICHATOWICH

CAGE:02388

=== Contractor Identification ===

Company Name:NILES CHEMICAL PAINT

Address:225 FORT STREET

Box:307

City:NILES

State:MI

ZIP:49120

Country:US

Phone:616-683-3377/219-236-5856

CAGE:02388

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Composition/Information on Ingredients
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Ingred Name:HOMOPOLYMER OF HDI (VAPOR PRESSURE 7.5E-5 MM @ 20 C)

CAS:28182-81-2

RTECS #:NQ9170000

Fraction by Wt: 75%

Other REC Limits:NONE SPECIFIED

Ingred Name

:HEXAMETHYLENE DIISOCYANATE

CAS:822-06-0

RTECS #:MO1740000

Fraction by Wt: #

Other REC Limits:NONE SPECIFIED

ACGIH TLV:0.005 PPM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:# RESIDUAL MONOMER CONTENT LESS THAN 0.5% BASED ON RESIN
SOLIDS AT TIME OF MFR. AFTER 3-6 MO STORAGE, FREE MONOMER ##

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:## CONTENT MAY RISE TO MAXIMUM OF 1.6%. MANUFACTURER ALSO
RECOMMENDS A CEILING LEVEL OF 0.02 PPM.

RTECS #:9999999ZZ

Other REC Limits:NO

NE SPECIFIED

Ingred Name:XYLENE (VAPOR PRESSURE 7.0 MM @ 20 C)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 12.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:100 PPM

ACGIH TLV:100 PPM/150 PPM STEL

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:N-BUTYL ACETATE (SARA III) (VAPOR PRESSURE 10 MM @ 20 C)

CAS:123-86-4

RTECS #:AF7350000

Fraction by Wt: 12.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:150 PPM

ACGIH TLV:150 PPM/200 PPM STEL

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:V

OC: 2.21 LBS/GL
RTECS #:9999999VO
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50: 4,300 MG/KG (RATS). *
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL: MUCOUS MEMBRANE/RESP TRACT
IRRIT. BRONCHITIS/BRON SPASM, PULMONARY EDEMA. CHEM/HYPERSENSITIVE
PNEUMONITIS. NOSE/THROAT/EYE IRRIT. IMMED DANGEROUS TO LIFE/
HLTH.
ISOCYANATE SENSITIZATION (CHEM AS THMA). NON-SPECIFIC ASTHMATIC
RESPONSE.LUNG DAMAGE/REDUCED FUNCTION. PERM BRAIN/NERV SYS DAMAGE.
NEUROTOXIC EFFECTS.**

Explanation of Carcinogenicity:NOT LISTED BY NTP, IARC OR OSHA.

*INHAL LC50: 137 TO 1150 MG/M3 (RAT). MORE INFO ON FILE.

Effects of Overexposure:INHAL: RUNNY NOSE, SORE THROAT, COUGH, CHEST
DISCOMFORT, SHORT BREATH, BREATH OBSTRUCT. FLU-LIKE SYMPTOM. DRY
THROAT, TIGHT CHEST. HEADACHE, NAUSEA, NARCOSIS, FATIGUE,
APPETITE

LOSS, WHEEZE, ASTHMATIC ATTACK. INTELLECT/COORDINATN LOSS. SKIN:
RED, SWELL, RASH, SCALING, BLISTER. DRY, CRACK SKIN. INFECTION
SUSCEPTIBLE.***

Medical Cond Aggravated by Exposure:ASTHMA AND OTHER RESPIRATORY
DISORDERS (BRONCHITIS, EMPHYSEMA, HYPERREACTIVITY), SKIN ALLERGIES,
ECZEMA.

===== First Aid Measures =====

First Aid:INHAL: MOVE TO FRESH AIR. ADMIN OXYGEN/ARTIF RESP AS NEEDED.
GET MED AID. ASTHMATIC SYMPTOM MAY DEV
ELOP, TREAT SYMPTOMS. SEE DR.

SKIN: REMOVE CONTAM CLOTH IMMED. WASH W/SOAP & WTR. WASH CONTAM
CLOTH B EFORE REUSE. SEVERE EXPOS, GET UNDER SFTY SHOWER AFTER
REMOVING CLOTH. GET MED AID. LESSER EXPOS, GET MED AID IF IRRIT
DEVELOPS. EYE: FLUSH W/LUKEWARM WATER (LOW PRESSURE) 15 MIN,
LIFTING EYELIDS.****

===== Fire Fighting Measures =====

Flash Point Method:SCC
Flash Point:91.0F,32.8C
Lower Limits:1.0
Upper Limits:7.6
Extinguishing Media:FOAM,

ALCOHOL FOAM, CO2, DRY CHEMICAL.

Fire Fighting Procedures:EMERG EQUIP W/SCBA & PROTECT CLOTH. DURING FIRE, HDI VAPORS AND OTHER IRRITATING, HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.

Unusual Fire/Explosion Hazard:ISOLATE FROM HEAT/IGNIT SOURCE. CLSD CNTNR MAY EXPLODE W/HEAT OR CONTAM W/WATER. SOLVENT VAPORS HEAVIER THAN AIR. VAPOR MAY TRAVEL TO IGNIT SOURCE--FLASH BACK.

===== Accidental Release Measures =====

Spill Release Procedures:EVAC NONESSENTIAL. REMOVE IGNIT SOURCES. VENT AREA. DIKE. NOTIFY AUTHORITIES. COVER W/SAWDUST, VERMIC, FULLER'S EARTH, ETC. POUR DECONTAM SOLUTION OVER SPILL, ALLOW TO REACT 10 MIN. COLLECT IN OPEN CN TNR, COVER LOOSE. LET STAND 24-48 HRS. USE RSPRTR.

Neutralizing Agent:TERGITOL TMN-10 (20%)/WATER (80%); CONC AMMONIA (3-8%)/DETERG (2%)/WTR (90-95%)

===== Handling and Storage =====

Handling and Storage Precautions:-30F TO 122F STORAGE TEMP. AVERAGE SHELF LIFE: 12 MO @ 77F. KEEP FROM HEAT/IGNIT SOURCES. GRND CNTNR DURING STOR/TRANSFER. STORE IN CLSD CNTNR.

Other Precautions:DON'T RESEAL IF CONTAM SUSPECTED. AT MAX STOR TEMP, MAT'L MAY SLOWLY POLYMERIZE W/OUT HAZARD. IDEAL STOR TEMP 50-81F. AVOID SKIN/EYE CONTACT. EMPLOYEE EDUCATION/TRAINING-SAFE USE/HANDLING PRODUCT REQUIRED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:RSPRTR APPROVED FOR ISOCYANATE CONTAINING ENVIRNMNTS (AIR PURIFYING/FRESH AIR SUPPLIED) MAY BE NECESSARY. CONSIDER TYPE OF APPLICATION & ENVIRONMENTAL CONC. OBSERVE OSHA REGULATIONS FOR RESPIRATORY USE (29 CFR 1910.134). MORE INFO ON FILE.

Ventilation:PROVIDE SUFF EXHAUST VENT TO KEEP CONC OF HDI/POLYISOCYANATE BELOW TLV/MGL. EXHAUST MAY NEED TO BE CLEANED.

Protective Gloves:CHEMICAL RESISTANT GLOVES: NITRILE/VITON

Eye Protection:SFTY GLASSES, SPLSH GOGGLES, FACE SHIELD

Other Protective Equipment:CO

VER EXPOSED SKIN. IF CREAM USED KEEP AREA ONLY COVERED BY CREAM TO MINIMUM. USE SFTY SHOWERS & EYEWASH STATIONS.

Work Hygienic Practices: DON'T WEAR CONTACT LENSES. DON'T BREATH VAPOR. AVOID SKIN/EYE CONTACT. IN SPRAY OPS, PROTECT AGAINST EXPOS TO PROD.

Supplemental Safety and Health

** EYE: TEAR/RED/SWELLING W/STING. ***ACTION IN DIGESTIVE TRACT. VOMITING MAY CAUSE ASPIRATION OF SOLVENT RESULTING IN CHEM PNEUMONITIS. ****GET TO DR/OPHTHAMALOGIST IMMEDIATELY. DO

N'T INDUCE VOMIT. DRINK 1-2 CUPS MILK/WATER. NOTHING BY MOUTH TO UNCONSCIOUS/CONVULSING PERSON. MORE INFO ON FILE.

===== Physical/Chemical Properties =====

Vapor Density:> AIR

Spec Gravity:8.85 LBS/GAL

Viscosity:183 MPAS @20C

Evaporation Rate & Reference:SLOWER THAN ETHER

Solubility in Water:INSOLUBL/REACT W/WTR

Appearance and Odor:CLEAR TO PALE YELLOW LIQUID/SOLVENT ODOR.

Percent Volatiles by Volume:CA 30

===== Stability and Reactivity Data =
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Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:MOISTURE, HIGH TEMPERATURES, SHOCK FROM DROPPING.

Hazardous Decomposition Products:BY HIGH HEAT & FIRE: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HCN & HDI.

Conditions to Avoid Polymerization:MAY OCCUR IF IN CONTACT WITH MOISTURE OR OTHER MATERIALS WHICH REACT W/ISOCYANATES. MAY OCCUR AT TEMPS ABOVE 400F.

===== Disposal Considerations =====

Waste Disposal Methods:WASTE MUST BE DISPOSED OF IN ACCORDANCE W/FED, STATE & LOCAL REGS. INCINERATION PREFERRED. EMPTY CNTNR MUST BE HANDLE W/CARE. DECONTAM CNTNRS PRIOR TO DISPOSAL. DON'T HEAT/CUT ON/NEAR EMPTY CNTNRS W/E LECTRICAL OR GAS TORCH. RCRA IGNITABLE;D001.

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