

NILES CHEMICAL PAINT CO -- MIL-C-46168D PART B 4:1 BLEND -- 8010-01-141-2419

===== Product Identification =====

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

MSDS Date:04/04/1990

FSC:8010

NIIN:01-141-2419

Kit Part:Y

MSDS Number: BNWTC

=== Responsible Party ===

Company Name:NILES CHEMICAL PAINT CO

Address:225 FORT ST

Box:307

City:NILES

State:MI

ZIP:49120

Country:US

Info Phone Num:616-683-3377 OR 219-236-5856

Emergency Phone Num:616-683-3377 OR 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

===== Composition/Information on Ingredients =====

Ingred Name:HOMOPOLYMER OF HDI

CAS:28182-81-2

RTECS #:NQ9170000

Fraction by Wt: 75%

Other REC Limits:NONE SPECIFIED

Ingred Name:HEXAMETHYLENE DIISOCYANATE *(RESIDUAL MONOMER
CONTENT LESS THAN 0.5%

BASED ON RESIN SOLIDS AT TIME OF MFR.**

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:**AFTER 3-6 MO STORAGE, THE FREE MONOMER CONTENT MAY RISE
(MAX 1.6). MFR ALSO RECOMMENDS A CEILING LEVEL OF 0.02 PPM.

RTECS #:9999999ZZ

Other REC Limits:NONE SPECIFIED

Ingred Name:XYLENE (SARA 313) (VAPOR PRESSURE 7.0 MM HG @ 20C)

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 (VAPOR PRESSURE 10 MM HG @ 20C)

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:VOC: 2.21 LB/GL

RTECS #:9999999VO

Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mix

ture:ORAL 4,300 MG/KG RAT. INHAL ***

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

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

Health Hazards Acute and Chronic:INHAL: IRRIT, REDUCED LUNG FUNCTION (BREATHING OBSTRUCTION),LUNG DAMAGE, BRONCHITIS, BRONCHIAL SPASM, PULMONARY EDEMA. CHEMICAL/HYPERSENSITIVE PNEUMONITIS. EYE, NOSE, THROAT IRRIT. HIGH CONC CAN CAUSE DEATH. SOME INDIVIDUALS MAY DEVELOP ISOCYANATE SENSITIZATION (LATER REACT W/EXPOS BELOW TLV). MORE

INFORMATION ON FILE.

Explanation of Carcinogenicity:N/K ***137 TO 1150 MG/M3 RAT. DERMAL >1,700 MG/KG RABBIT.

Effects of Overexposure:BURNING SENSATION (NOSE, THROAT, LUNGS), RUNNY NOSE, SORE THROAT, COUGHING, WHEEZING, ASTHMATIC ATTACK, LUNG SENSITIVITY, CHEST DISCOMFORT, SHORTNESS OF BREATH, FEVER, CHILLS. DRYNESS (THROAT), TIGHTNESS (CHEST). HEADACHE, NAUSEA, NARCOSIS, FATIGUE, LOSS OF APPETITE. REDNESS, RASH, SWELLING, SCALING, BLISTERING. ****

Medical Cond Aggrava

ted by Exposure:ASTHMA & OTHER RESPIRATORY DISORDERS (BRONCHITIS, EMPHYSEMA, HYPERREACTIVITY), SKIN ALLERGIES, ECZEMA. ****LOSS OF COORDINATION, LOSS OF INTELLECTUAL ABILITY.

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

First Aid:INHAL:MOVE TO FRESH AIR. ADMIN OXYGEN/ARTIF RESP. CALL DR. ASTHMATIC SYMPTOMS? TREAT SYMPTOMATICALLY. CALL DR. SKIN:REMOV CONTAM CLOTH. WASH W/SOAP & WTR. SEVERE EXPOS, REMOVE CLOTH, GET UNDER SAFETY SHOWER. C ALL DR. LESSER EXPOS-CALL DR, IF IRRIT DEVELOPS. EYE:FLUSH W/WTR 15 MIN, LIFT LIDS. REFER TO DR. INGEST:NO VOMIT. 1-2 CUPS MILK/WATER. NOTHING BY MOUTH UNCONSCIOUS/CONVULSING PERSON. CALL DR.

===== 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:FULL EMERG EQUIP (SCBA & FULL PROTECT CLOTH). DURING FIR

E, HDI & OTHER TOXIC GASSES MAY BE GENERATED. ISOLATE FROM IGNIT SOURCE. CLSD CNTNR MAY EXPLODE W/HEAT.*
Unusual Fire/Explosion Hazard:*CLSD CNTNR MAY BURST WHEN CONTAM W/WATER CREATING CO2. SOLVENT VAPOR HEAVIER THAN AIR, MAY TRAVEL ALONG GROUND TO IGNITION SOURCE & FLASHBACK TO VAPOR SOURCE.

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

Spill Release Procedures:EVAC PEOPLE. REMOVE IGNIT SOURCES. VENT. DIKE/STOP SPILL. NOTIFY AUTHORITIES. COVER SPILL W/ABSORB/DECONTAM
SOLUTION ON SPILL, LET REACT 10 MIN. COLLECT PROD IN CNTNR, COVER LOOSELY, STAND 24 HR. WASH SPILL W/DECOMTAM. RESPIRATOR PROTECT RECOMMENDED.
Neutralizing Agent:DECONTAM SOLUTIONS: NONIONIC SURFACTANT TERGITOL TMN-10 (20%) WATER (80%);#

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

Handling and Storage Precautions:STORAGE: MINIMUM -30F/122F MAX. KEEP FROM IGNITION SOURCE/HEAT. GRND CNTNRS DURING STORAGE/TRANSFER. STORE IN CLSD CNTNRS
. DO NOT RESEAL IF CONTAM.
Other Precautions:AVOID CONTACT W/SKIN & EYES. USE OF POS PRESS AIR SUPP RESP MAY BE NECESSARY FOR MIXING OR BRUSH APPLICATION. SEE ADDITIONAL INFORMATION ON FILE. FOLLOW LABEL INSTRUCT.
#CONCENTRATED AMMONI A (3-8%) DETERGENT (2%) WATER (90-95%)

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

Respiratory Protection:RESPIRATOR RECOMM/APPROVED IN ISOCYANATE CONTAINING ENVIRONMENTS MAY BE NECESSARY. USE AIR PURIFYING RSPRTR
/POSITIVE PRESSURE SUPPLIED AIR RSPRTR APPROPRIATE FOR ISOCYANATE CONCENTRATIONS. SEE ORIGINAL MSDS ON FILE FOR FURTHER INFORMATION.
Ventilation:EXHAUST VENT SUFF TO KEEP AIRBORNE CONC OF HDI AND POLYISOCYANATE BELOW TLV. EXHAUST AIR MAY NEED TO BE CLEANED.
Protective Gloves:CHEM RESISTANT GLOVES NITRILE, VITON ETC
Eye Protection:SFTY GLASSES/SPLASH GOGGLES/FACE SHIELD
Other Protective Equipment:COVER AS MUCH SKIN AS POSSIBLE W/APPROPRIATE CLOTHES. IF SKIN CREAMS USED, KEEP AREA

PROTECTED BY ONLY CREAM TO
MINIMUM.

Work Hygienic Practices:PRECAUTIONS TO AVOID SKIN/EYE CONTACT/BREATHE
VAPOR. WASH CONTAM CLOTHING BEFORE REUSE. EYEWASH & SFTY SHOWERS
NEEDED.

Supplemental Safety and Health

OVEREXPOSURE TO CHROMIUM SOLVENT HAS BEEN ASSOCIATED W/PERMANENT
BRAIN/NERVOUS SYSTEM DAMAGE. SKIN: DEFATTING, DERMATITIS. SOLVENTS
CAN PENETRATE SKIN & CAUSE SYSTEMIC EFFECTS. INGEST: IRRITATION &
PO SSIBLE CORROSIVE ACTION IN MOUTH, INTEST TRACT. VOMITING
(AS
PIRATION OF MAT'L) CAN RESULT IN CHEMICAL PNEUMONITIS.

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

HCC:F2
Vapor Density:> AIR
Viscosity:183 MPAS @20C
Evaporation Rate & Reference:SLOWER ETHER (BU AC=1)
Solubility in Water:INSOL/REACTS W/WATER
Appearance and Odor:CLEAR TO PALE YELLOW LIQUID/SOLVENT ODOR
Percent Volatiles by Volume:CA 30

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
WATER, AMINES, STR
ONG BASES, ALCOHOLS, METAL COMPOUNDS, AND SURFACE
ACTIVE MATERIALS.
Stability Condition to Avoid:MOISTURE, HIGH TEMPERATURES, SHOCK FROM
DROPPING.
Hazardous Decomposition Products:BY HIGH HEAT AND FIRE: CARBON DIOXIDE,
CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HCN AND HDI.
Conditions to Avoid Polymerization:MAY OCCUR IF IN CONTACT W/MOISTURE
OR OTHER MATERIALS WHICH REACT W/ISOCYANATES. MAY OCCUR AT
TEMPERATURES OVER 400 F.

===== Disposal Considerations
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Waste Disposal Methods:DISPOSE IN ACCORDANCE W/FEDERAL, STATE & LOCAL
ENVIRONMNTL CNTRL REGS. INCINERATION PREFERRED. IGNITABLE HAZARDOUS
WASTE (PROD RESIDUE/FLAMMABLE SOLVENT VAPOR). DECONTAMINATE CNTNRS
PRIOR TO DISPOSAL. DON'T HEAT/CUT ON OR NEAR EMPTY CNTNRS.

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