

NILES CHEMICAL PAINT CO -- MIL-C-46168D PART B 4:1 BLEND -- 8010-01-141-2415

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

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

MSDS Date:04/04/1990

FSC:8010

NIIN:01-141-2415

Kit Part:Y

MSDS Number: BNWSZ

=== 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:HEXAMETHYLEN

E 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

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Hazards Identification =====

LD50 LC50 Mixture: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 ISOC  
YANATE 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), TIGHTN ESS (CHEST). HEADACHE, NAUSEA, NARCOSIS,  
FATIGUE, LOSS OF APPETITE. REDNESS, RASH  
, SWELLING, SCALING,  
BLISTERING. \*\*\*\*  
Medical Cond Aggravated 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 & WT  
R. SEVERE EXPOS, REMOVE CLOTH, GET  
UNDER SAFETY SHOWER. CALL 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 Procedure

s:FULL EMERG EQUIP (SCBA & FULL PROTECT CLOTH).

DURING FIRE, 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 PRESSURE AIR SUPPLIED RESP MAY BE NECESSARY FOR MIXING OR BRUSH APPLICATIONS. SEE ADDITIONAL INFO ON FILE. FOLLOW LABEL INSTRUCT.

#CONCENTRATED AMM ONIA (3-8%) DETERGENT (2%) WATER (90-95)

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

Respiratory Protection:RESPIRATOR RECOMM/APPROVED IN ISOCYANATE CONTAINI

NG 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 POSS

IBLE 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

KEY1:F4. KIT CONSISTS OF TWO PARTS. PART ONE HAS PNI A, PART TWO HAS PNI B, SAME NSN. FOR PREVIOUS FORMULATION, SEE PNI B, SAME NSN.

===== 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, 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 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 =====

Waste Disposal Methods:DISPOSE IN ACCORD W/ FEDERAL, STATE & LOCAL ENVIRONMNTL CNTRL REGS. INCINERATION PREFERRED. IGNITABLE HAZARDOUS

WASTE (PROD RESIDUE/FLAMMABLE SOLVENT VAPOR). DECONTAMINATE CONTAINERS PRIOR TO DISPOSAL . DON'T HEAT/CUT ON OR NEAR EMPTY CONTAINERS.

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