

NILES CHEMICAL PAINT COMPANY -- MIL-C-46168D, PART B 4:1 BLEND -- 8010-01-141-2414

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

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

MSDS Date:11/17/1988

FSC:8010

NIIN:01-141-2414

Kit Part:Y

MSDS Number: BHYLG

=== Responsible Party ===

Company Name:NILES CHEMICAL PAINT COMPANY

Address:225 FORT STREET

Box:307

City:NILES

State:MI

ZIP:49120

Country:US

Info Phone Num:616-683

-3377 (INFORMATION)

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

Preparer's Name:MIKE 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

(VAPOR PRESSURE 7.5E-5 MM @ 20C)

CAS:28182-81-2

RTECS #:NQ9170000

Fraction by Wt: 75%

OSHA

PEL:NE
ACGIH TLV:NE

Ingred Name:1,6-DIISOCYANATOHEXANE (HEXAMETHYLENE DIISOCYANATE)
CAS:822-06-0
RTECS #:MO1740000
Fraction by Wt: 0.7%
ACGIH TLV:0.005 PPM; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)
CAS:1330-20-7
RTECS #:ZE2100000
Fraction by Wt: 12.5%
OSHA PEL:100 PPM/150 STEL
ACGIH TLV:100 PPM/150STEL;9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:N-BUTYL ACETATE (SARA III)
CAS:123-86-4
RTECS #:AF7350000
Fraction by Wt: 12.5%
OSH
A PEL:150 PPM/200 STEL
ACGIH TLV:150 PPM/200STEL;9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:VOLATILE ORGANIC CMPD 2.21 LB/GAL
RTECS #:9999999VO

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EXPOSURE MAY LEAD TO BRONCHITIS,
BRONCHIAL SPASM, & PULMONARY EDEMA. CHEMICAL OR HYPERSENSITIVE
PNEUMONITIS W/FLU L

LIKE SYMPTOMS. VOMITING MAY CAUSE ASPIRATION OF THE SOLVENT RESULTING IN CHEMICAL PNEUMONITIS. CONTACT WITH BUTYL ACETATE OR XYLENE CAN RESULT IN DRY, DEFATTED, & CRACKED SKIN CAUSING SUSCEPT. TO INFECTIONS.

Effects of Overexposure: EYE: IRRIT., TEARING, REDDENING, & SWELLING ALONG WITH STINGING & DUST SENSATION SKIN:

REDDENING, SWELLING, RASH, SCALING, OR BLISTERING, & DERMATITIS

INHAL: IRRIT. THE MUCOUS MEMBRANES IN NOSE, THROAT, LUNGS, COUGHING, CHEST DISCOMFORTING

ST: IRRIT. & CORROSIVE

ACTION TO MOUTH, STOMACH TISSUE, & DIGESTIVE TRACK.

Medical Condition Aggravated by Exposure: ASTHMA, RESPIRATORY DISORDERS SUCH

AS BRONCHITIS, EMPHYSEMA, & HYPERACTIVITY, SKIN ALLERGIES, AND ECZEMA.

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

First Aid: EYE: FLUSH WITH CLEAN WATER, PRESS FOR 15 MINS, LIFTING EYELIDS, GET MEDICAL ATTENTION SKIN: WASH AREA WITH SOAP & WATER. REMOVE CONTAM. CLOTHING IMMEDIATELY, GET MEDICAL ATTENTION INGESTION: DO NOT INDUCE VOMITING

DO NOT GIVE ANYTHING BY MOUTH, CONSULT A PHYSICIAN INHAL: REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION AS NEEDED, GET MEDICAL ATTENTION ASTHMATIC TYPE SYMPTOMS MAY DEVELOP & MAY BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS

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

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: WEAR SCBA & FULL PROTECTIVE CLOTHING. ISOLATE

FROM HEAT, ELECTRICAL EQUIP, SPARKS, & OPEN FLAME. CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT, MAY ALSO

Unusual Fire/Explosion Hazard: BURST WHEN CONTAMINATED WITH WATER CREATING CO₂. STAGNANT AIR MAY CAUSE VAPORS TO BUILD UP & TRAVEL ALONG GROUND TO AN IGNITION SOURCE WITH MAY FLASH BACK TO SOURCE OF VAPORS.

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

Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION & VENTILATE AREA. DIKE OR IMPOUND SPILLED MATERIAL &

CONTRL FURTHER SPILLAGE IF POSS.
COLLECT MATL IN OPEN CONTNR TO SAFE PLACECOVER LOOSELY & ALLOW TO
STAND FOR 24-48 HRS. WASH DOWN SPILL AREAS W/DECONTAMINATION
SOLUTIONS.

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

Handling and Storage Precautions:KEEP AWAY FROM HEAT,SPRKS,& OPEN
FLAME. STORE IN TIGHTLY CLSD CONTNR TO PREVNT MOISTURE CONTAMIN.
IDEAL STORAGE IS 50-81F/10-27C.
Other Precautions:DO NOT RESEAL IF CONTAMINATION IS SUSPECTED. IF
CON
TNR IS EXPOSED TO HIGH HEAT, IT CAN BE PRESSURIZED & POSS.
RUPTURE EXPLOSIVELY. THIS GAS CAN CAUSE SEALED CONTAINERS TO
EXPAND AND POSSIBLY RUPTUR E EXPLOSIVELY.

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

Respiratory Protection:POSTV. PRESS. SUPLD AIR RESP. IS MANDATORY FOR
CONFND AREAS. OTHER APPROVED PROTECTION, AIR PURIFYING OR FRESH
AIR SUPPLIED RESPIRATORS.
Ventilation:EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE
CONCENTRATION OF
THE SOLVENT,HDI, & POLYISOCYANATE BELOW THEIR
TLV'S
Protective Gloves:CHEMICAL RESISTANT GLOVES
Eye Protection:SAFETY GLASSES,SPLASH GOGGLES,FACESHIELD
Other Protective Equipment:SAFETY SHOWERS & EYEWASH STATIONS SHOULD BE
AVAILABLE & SHOULD BE USED WHEN NEEDED.
Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING & BEFORE
USING RESTROOMSSMOKE ONLY IN SMOKING AREAS.
Supplemental Safety and Health
COVER AS MUCH OF THE EXPOSED SKIN AREA AS POSSIBLE WITH APPROPRIATE
CLOT
HING. IF SKIN CREAMS ARE USED, KEEP THE AREA PROTECTED ONLY BY
THE CREAM TO A MINIMUM.WASH CONTAMINATED CLOTHING THOROUGHLY BE
FORE REUSE.

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

Boiling Pt:B.P. Text:NE
Vapor Density:>AIR
Viscosity:183 MPAS @20C
Evaporation Rate & Reference:SLOWER THAN ETHER
Solubility in Water:INSOLUBLE
Appearance and Odor:CLEAR TO PALE YELLOW LIQUID WITH SOLVENT ODOR
Percent Volatiles by Volume:30 CA

===== 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, OR SHOCK FROM
DROPPING
Hazardous Decomposition Products: BY HIGH HEAT & FIRE: CARBON
DIOXIDE/MONOXIDE, OXIDES OF NITROGEN, TRACES OF HCN AND HDI
Conditions to Avoid Polymerization: IF IN CONTACT WITH MOISTURE OR OTHER
MATERIAL WHICH REACTS WITH ISOCYANATES. MAY OCCUR AT TEMP >400F/204C

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

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND
LOCAL REGULATIONS. INCINERATION IS PREFERRED. EMPTY CONTAINER MUST
BE HANDLED WITH CARE DUE TO PRODUCT RESIDUE & FLAMMABLE VAPOR. DO NOT HEAT OR
CUT ON OR NEAR EMPTY CONTAINERS WITH ELECTRICAL OR GAS TOUCH.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.