

NILES CHEMICAL PAINT CO. -- MIL-C-46168D PART B 4:1 BLEND -- 8010-01-162-5578

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

Product ID:MIL-C-46168D PART B 4:1 BLEND
MSDS Date:05/16/1995
FSC:8010
NIIN:01-162-5578
Kit Part:Y
MSDS Number: BYCNV
=== 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:616-683-3377
Emer
gency Phone Num:219-236-5856
Preparer's Name:MIKE 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:DIATOMACEOUS SILICA
CAS:68855-54-9
Fraction by Wt: 27.0%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:10 MG/M3

Ingred Name:POLYESTER RESIN
Fraction by Wt: 17

.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE(VP=3.7)
CAS:108-65-6
RTECS #:AI8925000
Fraction by Wt: 15.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (III) OXIDE
CAS:1308-38-9
RTECS #:GB6475000
Fraction by Wt: 9.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 MG(M3
ACGIH TLV:0.5 MG/M3

Ingred Name:N-BUTYL ACETATE (CERCLA)(VP=10)
CAS:123-86-4
RTECS #:AF7350000
Fraction by Wt: 9.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:150 PPM
ACGI
H TLV:150 PPM/200 STEL
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA 313)
(CERCLA)(VP=71.2)
CAS:78-93-3
RTECS #:EL6475000
Fraction by Wt: 5.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:200 PPM
ACGIH TLV:200 PPM/300STEL
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ISOBUTYL KETONE (HEXONE) (SARA 313) (CERCLA)(VP=15)
CAS:108-10-1
RTECS #:SA9275000
Fraction by Wt: 3.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGI

H TLV:50 PPM/75 STEL
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:XYLENE (SARA 313)(CERCLA)(VP=7)
CAS:1330-20-7
RTECS #:ZE2100000
Fraction by Wt: 3.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM/STEL 150
ACGIH TLV:100 PPM/STEL 150
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:MAGNESIUM FERRITE
CAS:12068-86-9
Fraction by Wt: 1.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PROPRIETARY INGREDIENT
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 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. CHEM/HYPERSENSITIVE PNEUMONITIS. EYE/NOSE/THROAT
IRRIT. HIGH CONC CAN CAUSE DEATH. SOME INDIVIDUALS MAY DEVELOP

ISOCYANATE SENSITIZATION (LATER REACT W/EXPOS BELOW TLV). MORE INFO
ON FILE.

Explanation of Carcinogenicity:NK ***137 TO 1150 MG/M3 RAT. DERMAL
>1,7000 MG/KG RABBIT.

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

, SCALING,
BLISTERING. ****

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

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

First Aid: INHAL: GET FRESH AIR. ADMIN OXYGEN/ARTIF RESP. CALL DR.
ASTHMATIC SYMPTOMS? TREAT SYMPTOMATICALLY. CALL DR. SKIN: REMOVE
CONTAM CLOTH. WASH W/SOAP & H₂O. SEVERE EXPOS, REMOVE CLOTH, GE
T
UNDER SAFETY SHOWER. CALL DR. LESSER EXPOS-CALL DR, IF IRRIT
DEVELOPS. EYES: WASH W/H₂O 15 MIN, LIFT LIDS. CALL DR. INGEST: NO
VOMIT. 1-2 CUPS MILK/H₂O. 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 PROTEC
T CLOTH)
DURING FIRE, HDI & OTHER TOXIC GASES 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 AUTHORI
TIES. COVER SPILL W/ABSORB/DECONTAM
SOLUTION ON SPILL, LET REACT 10 MIN. COLLECT PROD IN CNTNR, COVER
LOOSELY, STAND 24 HR. WASH SPILL W/DECONTAM. RESPIRATOR PROTECT
RECOMMENDED.
Neutralizing Agent: DECONTAM SOLUTIONS: NONIONIC SURFACTANT TERGITOL
TMN-10(20%) WATER(80%);#

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

Handling and Storage Precautions: MIN -30F/MAX 122F. KEEP FROM IGNITION
SOURCE/HEAT. GROUND CNTNRS DURING STORAGE/TRANSFER. STORE IN CLOSED

CNTNRS. DO NOT RESEAL IF CONTAM.

Other Precautions: AVOID CONTACT W/SKIN/EYES. POSITIVE PRESSURE SCBA MAY BE NECESSARY FOR MIXING OR BRUSH APPLICATION. SEE ADDITIONAL INFO ON FILE. FOLLOW LABEL INSTRUCT. #CONCENTRATED AMMONIA (3-8%) DETERGENT (2%) WASTE R 90-95%).

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

Respiratory Protection: RESPIRATOR RECOMM/ APPROVED IN ISOCYANATE CONTAINING ENVIRONMENTS MAY BE NECESSARY. USE AIR PURIFYING/ POS PRESSURE SCBA

APPROPRIATE FOR ISOCYANATE CONCENTRATIONS. SEE ORIGINAL MSDS ON FILE FOR FURTHER INFO.

Ventilation: EXHAUST VENT. SUFF TO KEEP AIRBORNE CONC OF HDI & POLYISOCYANATE BELOW TLV. EXHAUST AIR MAY NEED BE CLEANED.

Protective Gloves: CHEM RESISTANT, 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 Prac

tices: 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/ POSSIBLE CORROSIVE ACTION IN MOUTH/INTEST TRACT. VOMITING (ASPIRATION OF MAT'L) CAN RESULT IN CHEM PNEUMONITIS.

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

Boiling Pt: B.P. Text: 250 TO 289F

Vapor Density: >AIR

Spec Gravity: 1.061

VOC Grams/Liter: 4.29

Viscosity: 183 MPAS @20C

Evaporation Rate & Reference: SLOWER THN ETHER (BUAC=1)

Solubility in Water: INSOL/ REACTS W/ WATER

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

Percent Volatiles by Volume: 30.31

Corrosion Rate: MINIMAL

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

Stability Indicator/ Materials to Avoid: YES

WATER, AMINE

S, STRONG BASES, ALCOHOLS, METAL COMPOUNDS, SURFACE ACTIVE MATERIALS.

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

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

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

===== Disposal Considerations =====
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Waste Disposal Methods:IN ACCORDANCE W/FED, STATE, LOCAL ENVIRONMENTAL CNTRL REGS. INCINERATION PREFERRED. IGNITABLE HAZ WASTE (PROD RESIDUE/FLAMMABLE SOLVENT VAPOR). DECONTAMINATE CNTNRS PRIOR TO DISPOSAL. DON'T HEAT/CUT O N/NEAR EMPTY CNTNRS.

===== Other Information =====

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