



Chemical Name: Soldering Paste

Manufacturer: Nokorode

Container size: NA

Location: VLA

Disposal: Place empty container in trash.

NSN: 3439004693398
Manufacturer's CAGE: 81397
Part No. Indicator: A
Part Number/Trade Name: NOKORODE SOLDERING PASTE

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General Information
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Item Name: FLUX, SOLDERING
Company's Name: M W DUNTON CO
Company's Street: 3 BRIDAL AVE
Company's P. O. Box: 232
Company's City: WEST WARWICK
Company's State: RI
Company's Country: US
Company's Zip Code: 02893-2901
Company's Emerg Ph #: 401-821-1832
Company's Info Ph #: 401-821-1832
Record No. For Safety Entry: 003
Tot Safety Entries This Stk#: 006
Status: SMJ
Date MSDS Prepared: 09APR90
Safety Data Review Date: 16NOV90
Supply Item Manager: N32
MSDS Serial Number: BJJFF

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ZINC CHLORIDE
Ingredient Sequence Number: 01
Percent: <25
CAS Number: 7646-86-7
OSHA PEL: 1 MG/M3 (FUME)
ACGIH TLV: 1 MG/M3 (FUME)
Other Recommended Limit: STEL-2MG/M3 (FUME)

Proprietary: NO
Ingredient: AMMONIUM CHLORIDE (SARA III)
Ingredient Sequence Number: 02
Percent: <25
NIOSH (RTECS) Number: BP4550000
CAS Number: 12125-02-9
OSHA PEL: 10 MG/M3/20 STEL
ACGIH TLV: 10 MG/M3 FUME; 9192
Other Recommended Limit: STEL-20 MG/M3 (FUME)

Proprietary: NO
Ingredient: PETROLEUM
Ingredient Sequence Number: 03
Percent: <80%
NIOSH (RTECS) Number: 1001480PG
CAS Number: 8009-03-8
OSHA PEL: NONE
ACGIH TLV: NONE

Proprietary: NO
Ingredient: HLTH HAZ/SUPP DATA:CAUSTIC,CAN CAUSE ULCERATION OF EXPOSED

SURF OF SKIN. INHAL MAY PRDCE SEV PNEUMIT RESULTING FROM IRRIT
Ingredient Sequence Number: 04
NIOSH (RTECS) Number: 9999999ZZ

Proprietary: NO
Ingredient: OF RESP TRACT. AMMONIUM CHLORIDE: NOT CONSIDERED SERIOUS INDUS
HAZ. SAX INDICATES IT TO BE MILD IRRIT TO SKIN & RESP PASSAGE
Ingredient Sequence Number: 05
NIOSH (RTECS) Number: 9999999ZZ

Proprietary: NO
Ingredient: W/ LOW GRADE SYSTEMIC TOX BY INGEST. LARGE QTYS OF FUME
SUGGESTED TO BE TOXIC BY INHAL.
Ingredient Sequence Number: 06
NIOSH (RTECS) Number: 9999999ZZ

Proprietary: NO
Ingredient: EFTS OF OVEREXP: OF BRTH; POSSIBLE MODEST INITIAL SYMP, FOLLOWED
IN HOURS BY SEV SHORTNESS OF BRTH, REQUIRING PROMPT MD
Ingredient Sequence Number: 07
NIOSH (RTECS) Number: 9999999ZZ

Proprietary: NO
Ingredient: ATTN; OR FATALITY FROM GROSS OVEREXP BY FUME INHAL OR BY
SIGNIFICANT INGEST. INCONCLUSIVE REPORTS OF HUMAN SENSIT.
Ingredient Sequence Number: 08
NIOSH (RTECS) Number: 9999999ZZ

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Physical/Chemical Characteristics

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Appearance And Odor: TAN/GOLD TO BLACK PASTE, NO APPRECIABLE ODOR
Boiling Point: N/A
Melting Point: 120F, 49C
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Specific Gravity: 1.06
Evaporation Rate And Ref: N/A
Solubility In Water: INSOLUBLE

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Fire and Explosion Hazard Data

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Flash Point: 204C; ASTM D92
Extinguishing Media: FOAM, SAND, CO*2
Special Fire Fighting Proc: IF LARGE QUANTITIES ARE INVOLVED IN A FIRE,
FIREFIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE
CLOTHING.
Unusual Fire And Expl Hazrds: WHEN HEATED THE MATERIAL MAY RELEASE ZINC
CHLORIDE AND ZINC OXIDE FUMES.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: MATERIAL MAY BE INCOMPATIBLE WITH NYLON AND/OR CELCON
PLASTICS. CYANIDES MAY RELEASE HCN GSA WHEN MIXED W/ ZINC CHLORIDE.
Hazardous Decomp Products: ZINC CHLORIDE AND ZINC OXIDE FUMES.
Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: ZINC CHLORIDE LD50:(ORAL) 350 MG/KG (RAT)
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: ZINC CHLORIDE COMPONENT:CAUSES BURNS.FUMES,
DUST,OR MIST MAY CAUSE INJ TO RESP TRACT.SEV EXPOS MAY CAUSE LUNG DMG.IN
EITHER SOLID OR SOLN FORM,CORR TO EYES&SKIN.TOXIC EFTS DESCRIBED IN ANIMALS
FROM SHORT EXPOS INCLUDE CORR OF MUCOSAL SURF,LIVER&KIDNEY EFTS.TOX EFTS IN
ANIMALS OCCURRING ONLY W/INHAL EXPOS,(SEE SUPP DATA)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: ZINC CHLORIDE COMPONENT:EYE IRRIT W/
DISCOMFORT,TEARING/BLURRING OF VISION;SKIN IRRIT W/DISCOMFORT/RASH;OR IRRIT
OF UPPER RESP PASSAGES.HIGHER EXPOS MAY LEAD TO:SKIN BURNS/ULCERATION;EYE
IRRIT W/DISCOMFORT,TEARING/BLURRING OF VISION;TEMPORARY LUNG IRRIT EFTS W/
COUGH, DISCOMFORT, DFCLT BRTHG/SHORTNESS (SEE INGRED 7)
Med Cond Aggravated By Exp: DERMATITIS, RESPIRATORY DISEASES,
CONJUNCTIVITIS.PREEXISTING DISEASES OF THE LUNG.
Emergency/First Aid Proc: CALL PHYSICIAN IMMEDIATELY IN ALL CASES: EYE
FLUSH WITH WATER AND SOAP.INGEST:GIVE PLENTY OF WATER OR MILK.DO NOT INDUCE
VOMIT.INHAL:REMOVE TO FRESH AIR.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: NEUTRALIZE WITH SODIUM CARBONATE OR TRI-
SODIUM PHOSPHATE.
Neutralizing Agent: SEE ABOVE
Waste Disposal Method: FLUSH TO CHEMICAL WASTE DISPOSAL I/A/W FEDERAL,
STATE, AND LOCAL REGULATIONS.
Precautions-Handling/Storing: FLUX IS A STABLE MATERIAL IN CLOSED
CONTAINERS AT ROOM TEMPERATURE UNDER NORMAL STORAGE AND HANDLING
CONDITIONS.
Other Precautions: NONE SPECIFIED BY MANUFACTURER.

Control Measures

Respiratory Protection: USE FUME OR AIR SUPPLIED RESPIRATOR WHEN SOLDERING
IN CONFINED NON-VENTILATED SPACE.
Ventilation: LOCAL EXHAUST DURING SOLDERING AT THE FLAME SO AS TO CAPTURE
ALL GASES AND FUMES.
Protective Gloves: IMPERVIOUS GLOVES (FP N).
Eye Protection: CHEMICAL WORKERS GOGGLES (FP N)
Other Protective Equipment: HEAD AND BODY PROTECTION WILL HELP TO PREVENT
INJURY FROM SPLASHING,SPARKS OR FLAME.
Work Hygienic Practices: TRAIN EMPLOYEES TO KEEP HEAD OUT OF SOLDERING
FUMES.
Suppl. Safety & Health Data: HLTH HAZ:ARE LOWER RESP IRRIT W/ PULM EDEMA.
TESTS IN BACTERIAL /MAMMALIAN CELL CULTURES DEMONSTRATE MUTAGENIC ACTIVITY.
TESTS IN SOME ANIMALS INDICATE THAT THE CMPD MAY HAVE EMBRYOTOXIC ACTIVITY.
EXPOS TO FUME CAN CAUSE DMG TO MUC MEMB OF NASOPHARYNX&RESP TRACT.EXPO
PERSONS HAVE EXPER PALE GRAY CYANOSIS.(SEE INGRED 4)

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Transportation Data
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Trans Data Review Date: 90355
DOT PSN Code: PZN
DOT Proper Shipping Name: ZINC CHLORIDE, SOLUTION
DOT Class: 8
DOT ID Number: UN1840
DOT Pack Group: III
DOT Label: CORROSIVE
IMO PSN Code: PRR
IMO Proper Shipping Name: ZINC CHLORIDE, SOLUTION
IMO Regulations Page Number: 8247
IMO UN Number: 1840
IMO UN Class: 8
IMO Subsidiary Risk Label: -
IATA PSN Code: ZRR
IATA UN ID Number: 1840
IATA Proper Shipping Name: ZINC CHLORIDE SOLUTION
IATA UN Class: 8
IATA Label: CORROSIVE
AFI PSN Code: ZRR
AFI Prop. Shipping Name: ZINC CHLORIDE, SOLUTION
AFI Class: 8
AFI ID Number: UN1840
AFI Pack Group: III
AFI Basic Pac Ref: 12-5

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 13JUN91
Label Date: 13JUN91
Label Status: G
Common Name: NOKORODE SOLDERING PASTE
Chronic Hazard: YES
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE: CAUSES EYE IRRITATION. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING. HARMFUL IF INHALED OR SWALLOWED. AVOID BREATHING VAPORS. MAY CAUSE SKIN IRRITATION. AVOID CONTACT WITH SKIN. CHRONIC: MAY CAUSE LUNG DAMAGE.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: M W DUNTON CO
Label Street: 3 BRIDAL AVE
Label P.O. Box: 232
Label City: WEST WARWICK
Label State: RI
Label Zip Code: 02893-2901

Label Country: US

Label Emergency Number: 401-821-1832
