Material Safety Data Sheet. May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072 Note: Blank spaces are not permitted. If any item is not applicable or no information available, indicate so.

PRODUCT IDENTITY: Flux

NOKORODE Soldering Paste no's 14000 14000B 14010 14020 14030 14040 14050 14070

SECTION I MANUFACTURER IDENTIFICATION

M. W. Dunton Company
3 Bridal Avenue, P.O. Box 232
West Warwick, R.I. 02893

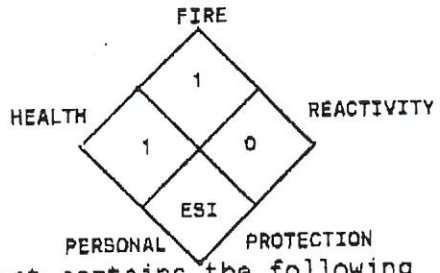
Factory phone (401) 821-1832
Chemtrec Phone (800) 424-9300
Date prepared 5/2/94

SECTION II HAZARDOUS INGREDIENTS/IDENTITY

Specific Chemical Name	C.A.S.	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Zinc Chloride	7646-85-7	1Mg/M3 (Fume)	1Mg/M3 (Fume)	STEL-2Mg/M3 (Fume)	<10-25%
Ammonium Chloride	12125-02-9	10Mg/M3	10Mg/M3 (Fume)	STEL-20Mg/M3 (Fume)	<10-25%
Petrolatum	8009-03-8	None	None		<80%

This product contains no components known to be in any reports on carcinogens or not on the T.S.C.A. Inv

0=INSIGNIFICANT HAZARD
1=SLIGHT HAZARD
2=MODERATE HAZARD
3=HIGH HAZARD
4=EXTREME HAZARD
I=AVOID INHALATION
S=AVOID SKIN CONTACT
E=AVOID CONTACT WITH EYES



SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: [N/A]
Melting Point: [120-150°F]
Specific Gravity: (H2O = 1) [1.06]
Vapor Density: (Air = 1) [N/A]
Vapor Pressure(mm Hg): [N/A]
Evaporation Rate: (Butyl Acetate = 1) [N/A]
Solubility in Water: [Insoluble]
Volatile organic Compounds: [0%]
Appearance and Odor:
Tan/Gold to Black Paste, no appreciable odor

This product contains the following toxic (as defined by 40 CFR 372) chemicals subject to the reporting requirements of section 313 of the emergency planning and community right-to-know act of 1986 (40 CFR 372). This information must be in all MSDS that are copied and distributed for this material.

CAS #	CHEMICAL NAME	% BY WEIGHT
NA	COPPER OR COPPER COMPOUNDS	0
NA	SILVER OR SILVER COMPOUNDS	0
NA	NICKEL OR NICKEL COMPOUNDS	0
NA	ZINC OR ZINC COMPOUNDS	<10-25

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point(Method Used): ASTM D-92 204 MIN CO
Flammable Limits: Non Flammable
LEL
UEL
Extinguishing Media:
Foam/Sand/CO_2
Special Fire Fighting Procedures:
If large quantities are involved in a fire, firefighters should use self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards:
When heated the material may release zinc chloride and zinc oxide fumes.

SECTION V REACTIVITY DATA

Stability: Unstable [ ]
Stable [X]
Conditions to Avoid:

Incompatibility(Materials to Avoid): Material may be incompatible with nylon and/or celcon plastics. Cyanides may release HCN Gas when mixed with zinc chloride.

Hazardous Decomposition or Byproducts:

Hazardous Polymerization: May Occur [ ] Will not occur [X] Conditions to Avoid:

SECTION VI HEALTH HAZARD DATA SEE ATTACHED PAGE 3 AND PAGE 4

Route(s) of entry: (Applies if box is checked)
Inhalation? [X] Skin? [ ] Ingestion? [X]

Health Hazards(Acute and Chronic): See medical conditions aggravated, below.

Carcinogenicity:
NTP? [N/A] IARC Monographs? [N/A] OSHA Regulated? [N/A]

Signs and Symptoms of Exposure:
Intense irritation of eyes

Medical Conditions Generally Aggravated by Exposure:
Dermatitis, respiratory diseases, conjunctivitis

Emergency and First Aid Procedures: Call physician immediately in all cases: Eye contact flush with water x 15 minutes, including under eyelids. Skin contact: Flush with water and soap. Ingestion: Give plenty of water or milk. Do not induce vomiting. Inhalation: move to fresh air

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:
Neutralize with sodium carbonate or tri-sodium phosphate

Waste Disposal Method:
Flush or shovel to chemical waste disposal according to federal, state, and local regulations.

Precautions to Be Taken in Handling and Storing:
Flux is a stable material in closed containers at room temperature under normal storage and handling conditions.

SECTION VIII CONTROL MEASURES

Respiratory Protection? (Specify Type)
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
Mechanical
Special Train employee to keep head out of soldering fumes
Other See ANSI/ASC Z49.1 Section 5

Protective Gloves: Rubber - For sensitive individuals

Eye Protection: Wear goggles or face shield if splashing during soldering is probable

Other Protective Clothing or Equipment:
Head and body protection will help to prevent injury from splashing, sparks or flame

Work/Hygienic Practices See attached