CODE: M/L 1138

MATERIAL SAFETY DATA SHEET This Material Safety Data Sheet complies with

the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200

PRODUCT: LENOX® GENERAL PURPOSE SOFT SOLDERING LIQUID FLUX (Inorganic Acid Soldering Flux)



IONE: 336-777-86 INGREDIENT Ammonium Chloride Hydrochloric Acid	SECTION I IDEN ISSU ry Street Ilem, NC 27101	JE DATE: May, 2005 FION INFORMATION US OSHA PEL	<u>%</u>	
1690 Lowe Winston-Sa JONE: 336-777-86 <u>INGREDIENT</u> Ammonium Chloride Hydrochloric Acid	ISSU ry Street ilem, NC 27101 SECTION II COMPOSIT <u>CAS NO.</u>	JE DATE: May, 2005 FION INFORMATION US OSHA PEL	%	
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Ammonium Chloride Hydrochloric Acid	CAS NO.	US OSHA PEL	%	
Ammonium Chloride Hydrochloric Acid			%	
Hydrochloric Acid	12125-02-9		<u></u>	
		NA	4-15	
7: 011 11	7647-01-0	5.0 PPM	3-15	
Zinc Chloride	7646-85-7	1PPM	30-45	
	•	, Ç		
Wash thoroughl ON: Remove to fresh	y with water. If irritation d n air. Obtain immediate m conscious, give two glass Fume inhalation, inge Pulmonary edema, a None presently know None	levelops, obtain medical attenedical attenedical attention. ses of water and induce von estion, skin and eyes. abdominal pain, vomiting, eye	ntion. niting. Obtain immedia	
	1 PPM			
	Flush with wate Wash thorough ON: Remove to fresh If patient is fully attention. S OF ENTRY: VEREXPOSURE: IONS GENERALLY OVEREXPOSURE: D AS A CARCINOGEN	Ione of the materials in this product are listed in NTP, I SECTION III HEAI Flush with water for 10 minutes. Obtain i Wash thoroughly with water. If irritation of ON: Remove to fresh air. Obtain immediate m If patient is fully conscious, give two glass attention. S OF ENTRY: Fume inhalation, ing VEREXPOSURE: Pulmonary edema, a TONS GENERALLY Y OVEREXPOSURE: None presently know D AS A CARCINOGEN	 Wash thoroughly with water. If irritation develops, obtain medical attention. Remove to fresh air. Obtain immediate medical attention. If patient is fully conscious, give two glasses of water and induce von attention. S OF ENTRY: Fume inhalation, ingestion, skin and eyes. VEREXPOSURE: Pulmonary edema, abdominal pain, vomiting, eyer TONS GENERALLY Y OVEREXPOSURE: None presently known. D AS A CARCINOGEN 	Ione of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens. SECTION III HEALTH HAZARDS Flush with water for 10 minutes. Obtain immediate medical attention. Wash thoroughly with water. If irritation develops, obtain medical attention. ON: Remove to fresh air. Obtain immediate medical attention. If patient is fully conscious, give two glasses of water and induce vomiting. Obtain immediate attention. S OF ENTRY: Fume inhalation, ingestion, skin and eyes. VEREXPOSURE: Pulmonary edema, abdominal pain, vomiting, eye damage and skin butor over the presently known. OAR A CARCINOGEN

FLASH POINT:	N/A
FLAMMABLE LIMITS:	N/A
EXTINGUISHING MEDIA:	Dry chemical, CO2 foam
AUTO IGNITION TEMPERATURE:	None
SPECIAL FIRE FIGHTING PROCEDURES:	Normal cautious when dealing with chemicals.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Will release small amounts of HC1 upon decomposition.

SECTION V ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED: First neutralize with Soda Ash or Sodium Bicarbonate; dilute with water and dispose of in accordance with EPA Regulations.

SECTION VI HANDLING AND STORAGE

STORAGE REQUIREMENT: HANDLING PRECAUTIONS: Store in plastic containers in cool area, away from heat. Do not store in glass or porcelain container. Wash thoroughly after use. Safe precautionary practices - avoid spills and exposure to skin and fumes.

SECTION VII CONTROL MEASURES

RESPIRATORY PROTECTION (TYPE): MECHANICAL (GENERAL): EYE PROTECTION: PROTECTIVE GLOVES: OTHER PROTECTIVE CLOTHING OR EQUIPMENT: VENTILATION: LOCAL EXHAUST: NIOSH approved respirator Yes Safety glasses/goggles Recommended, NIOSH approved Rubber apron, or equivalent Yes Yes

SECTION VIII PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: VAPOR PRESSURE (mm Hg): VAPOR DENSITY (AIR=1): MELTING POINT: REACTIVITY IN WATER:

104°C/220°F N/A N/A 0°C/32°F None SPECIFIC GRAVITY (WATER=1): PERCENT VOLATILE BY VOLUME: EVAPORATION RATE (BUTYL ACETATE=1): SOLUBILITY IN WATER: APPEARANCE AND ODOR: 1.32 64% 0.6 Unlimited Clear, odorless liquid

SECTION IX STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID): INCOMPATIBILITY:

(CONDITIONS TO AVOID):

Product is stable Metals Alkaline, Strong Oxidizing or Reducing Materials, Cyanides or Combustible Materials. HC1, Zinc Chloride, Zinc Oxide, Ammonium Will not occur Excessive heat or cold

SECTION X TRANSPORTATION AND DISPOSAL CONSIDERATIONS

D.O.T. PROPER SHIPPING NAME:

HAZARDOUS POLYMERIZATION:

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARD CLASS: IDENTIFICATION NUMBER: PACKING GROUP: TYPE DOT LABEL REQUIRED INFO: WASTE DISPOSAL METHOD: Corrosive Liquid, Acidic, Inorganic, N.O.S. Contains Zinc Chloride, Hydrochloric Acid 8 UN3264 III Corrosive Dispose of in accordance with EPA regulations

SECTION XI OTHER INFORMATION

VOC CONTENT: None

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. LENOX® provides no warranties, either express or implied, and assumes no responsibilities for the accuracy or completeness of the data contained in this document. The data in this Material Safety Data Sheet relates only to this product and does not relate to use in combination with any other material or in any process.