### MATERIAL SAFETY DATA SHEET

MSDS 0495

		- PRODUCT AND			NOITA	
	<del></del>				HMIS CODES	
PRODUCT NA	AME				Health	1
Nokorode Regular Paste Flux					Flammability	
					Reactivity	0
PRODUCT CO		14020			PPI	В
CHEMICAL 1	14010, 14020,	14030				
	c/Inorganic					
USE	o, morganic					
	ing Flux					
MANUFACTURER'S NAME				MERGENCY	TELEPHONE NO.	
The RectorSeal Corporation					24 Hours	
2601 Spenwick Drive				(800) 42	4-9300	
	n, Texas 7705	5 USA	m	DOUNT CAT	OPDUTCE MPI PDUON	E NO
VALIDATION DATE				(800) 23	SERVICE TELEPHON	E NO.
February 16, 2006 REVISION DATE				(800) 23	1-3343	
	ry 16, 2006					
	_					
	Section 2	COMPOSITION/I	NFORMATIO	N ON ING	REDIENTS 	<b>-</b>
% by WT	CAS No.	INGREDIENT		UNITS		
		Zinc Chloride				
		ACGIH TL	V 1	-		
		OSHA PE		mg/m3		
10-25	12125-02 <b>-</b> 9	Ammonium Chlo		/ 3		
		ACGIH TL	L 10	mg/m3		
70-90	8009-03 <b>-</b> 8		ь 10	mg/mo		
, 0 50			V N/D			
		OSHA PE				
=======================================		WARADDO TORNE				
	Section 3	HAZARDS IDENT				
SUMMARY O	F ACUTE HAZARD	S				
					during soldering	•
		ntense irritat		njury.		
		S AND SYMPTOMS				
INHALATIO		atory system f	rom filmes	ONO I NAC	during soldering	
EYE CONTA	_	acory system r	Tom Tumes	evorved	during soldering	•
		tense irritati	on and in	jury.		
SKIN CONT	_					
May car	use skin irrit	ation.				
INGESTION						
		ritation to di	gestive s	ystem.		
	F CHRONIC HAZA		dname		Chamian lineathati	
Snort	term effects t	o liver and ki	aneys can	occur.	Chemical irritati	on

http://www.rectorseal2.com/files/239/Nokorode%20Regular%20Paste%20Flux.html 11/20/2008

fumes to cause lung damage and irritation of respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

from continued skin contact can occur. Continuous industrial use in small unventilated areas may result in sufficient inhalation of solder and flux

Individuals with pre-existing or chronic diseases of the eyes, skin,

respiratory system, cardiovascular system, gastrointestinal system, liver,

or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air

immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt

action is essential.

If on SKIN: Immediately wash with soap and water. Remove and wash

any contaminated clothing.

If in EYES: Flush eyes with large amounts of water for 15 minutes.

Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce

vomiting at the instruction of a physician. Never give

anything by mouth to an unconscious person.

### Section 5 -- FIRE FIGHTING MEASURES

LEL UEL N/D FLASH POINT >400 F (204 C) SETA CC

EXTINGUSING MEDIA

Foam, dry chemical, carbon dioxide or water fog. SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10). May release ZnO and HCl fumes. UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat may build up pressure and rupture closed containers.

# Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wipe up spills to prevent footing hazard. Avoid flushing into sewers, drains, waterways and soil. Wear protective clothing during clean up.

## Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Store flux at ambient conditions. Wash thoroughly after handling to remove all residue.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

### Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators during soldering operations until fumes have dissipated.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent) OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT:
                                N/A
SPECIFIC GRAVITY (H20 = 1):
                               1.06
                                < 0.01 @ 68 F (20 C)
VAPOR PRESSURE (mm Hg):
                                120-150 F (52-66 C)
MELTING POINT:
VAPOR DENSITY (AIR = 1):
EVAPORATION RATE (ETHYL ACETATE = 1): N/A
APPEARANCE/ODOR:
                                Tan / Petroleum Odor
SOLUBILITY IN WATER:
                                Insoluble
VOLATILE ORGANIC COMPOUNDS (VOC) Content
(Theoretical Percentage By Weight):
                               0% or (0 g/L)
_____
         Section 10 -- STABILITY AND REACTIVITY
STABILITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): None known
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of zinc, chlorine, and HCL may
be evolved during soldering.
HAZARDOUS POLYMERIZATION: Will not occur.
Section 11 -- TOXICOLOGY INFORMATION
CHRONIC HEALTH HAZARDS
  No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.
TOXICOLOGY DATA
Ingredient Name
Zinc Chloride
              Oral-Rat LD50:350 mg/kg
               Inhalation-Rat LCLo:1960 mg/m3/10M
  Ammonium Chloride
               Oral-Rat LD50:1650 mg/kg
               Inhalation-Rat LC50:N/D
  Petrolatum
              Oral-Rat LD50:N/D
              Inhalation-Rat LC50:N/D
 Section 12 -- Ecological Information
ECOLOGICAL DATA
Ingredient Name
  Zinc Chloride
               Food Chain Concentration Potential
                                               None
               WATERFOWL TOXICITY
                                                N/A
               AQUATIC TOXICITY: 7.2 ppm/96 hr/medium bluegill/TLm
  Ammonium Chloride
               Food Chain Concentration Potential
                                                None
               WATERFOWL TOXICITY
                                                N/A
               BOD
                                                N/A
               AQUATIC TOXICITY: 6 ppm/96 hr/sunfish TLm
  Petrolatum
               Food Chain Concentration Potential
                                                N/D
               WATERFOWL TOXICITY
                                                N/D
               BOD
                                                N/D
               AQUATIC TOXICITY:
                                                N/D
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\_\_\_\_\_\_\_ Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated solid waste

Disposal Method: Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-Regulated OCEAN (IMDG): Non-Regulated AIR (IATA): Non-Regulated

WHMIS (CANADA): Non-Regulated

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA Ingredient Name

Zinc Chloride

SARA 313 Yes TSCA Inventory Yes
CERCLA RQ 1000 lb.
RCRA Code N/A

Ammonium Chloride

No SARA 313 TSCA Inventory Yes CERCLA RQ N/A RCRA Code N/A

Petrolatum

SARA 313 No TSCA Inventory Yes CERCLA RQ N/A RCRA Code N/A

Section 16 -- OTHER INFORMATION \_\_\_\_\_

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001