

SAFETY DATA SHEET

SDS 0656

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

	HMIS CODES	
PRODUCT NAME	Health	1
Nokorode Regular Paste Flux	Flammability	1
	Reactivity	0
PRODUCT CODES	PPI	B
14000, 14003, 14010, 14020, 14030		
CHEMICAL FAMILY		
Organic/Inorganic		
USE		
Soldering Flux		
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.	
The RectorSeal Corporation	Chemtrec 24 Hours	
2601 Spenwick Drive	(800)424-9300 USA	
Houston, Texas 77055 USA	(703)527-3887 International	
DATE OF VALIDATION	TECHNICAL SERVICE TELEPHONE NO.	
January 23, 2015	(800)231-3345 or (713)263-8001	
DATE OF PREPARATION		
May 2, 2012		

Section 2 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 OSHA Hazards
 Irritant
 GHS CLASSIFICATION
 PHYSICAL HAZARDS: None
 HEALTH HAZARDS
 Acute Toxicity:
 Oral: Not Classified
 Dermal: Not Classified
 Inhalation: Not Classified
 Skin Corrosion/Irritation: Not Classified
 Serious Eye Damage/Eye Irritation: Not Classified
 Respiratory or Skin Sensitization: Not Classified
 Germ Cell Mutagenicity: Not Classified
 Carcinogenicity: Not Classified
 Reproductive Toxicology: Not Classified
 Target Organ Systemic Toxicity - Single Exposure: Not Classified
 Target Organ Systemic Toxicity - Repeated Exposure: Not Classified
 Aspiration Toxicity: Not Classified

ENVIRONMENTAL HAZARDS
 Hazardous to the Aquatic Environment: Not Classified
 Acute aquatic toxicity: Not Classified
 Chronic aquatic toxicity: Not Classified
 Bioaccumulation potential: Not Classified
 Rapid degradability: Not Classified

GHS Label elements, including precautionary statements
 Pictogram: Irritant
 Signal Word: Warning
 Hazard Statements:
 H302 - Harmful if swallowed.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 Precautionary Statements:
 P102 - Keep out of reach of children.
 P262 - Do not get in eyes, on skin, or on clothing.
 P264 - Wash hands thoroughly after handling.
 P281 Use personal protective equipment as required.

SUMMARY OF ACUTE HAZARDS
 Irritation to respiratory system from fumes evolved during soldering.
 Eye contact may cause intense irritation and injury.
 ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS
 INHALATION
 Irritation to respiratory system from fumes evolved during soldering.
 EYE CONTACT
 Contact may cause intense irritation and injury.
 SKIN CONTACT
 May cause skin irritation.
 INGESTION
 Nausea, vomiting, irritation to digestive system.

SUMMARY OF CHRONIC HAZARDS

Short term effects to liver and kidneys can occur. Chemical irritation from continued skin contact can occur. Continuous industrial use in small unventilated areas may result in sufficient inhalation of solder and flux fumes to cause lung damage and irritation of respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

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 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Zinc Chloride
PERCENTAGE BY WEIGHT: 10-25
CAS#: 7646-85-7
EC#: 231-592-0

INGREDIENT: Ammonium Chloride
PERCENTAGE BY WEIGHT: 10-25
CAS#: 12125-02-9
EC#: 235-186-4

INGREDIENT: Petrolatum
PERCENTAGE BY WEIGHT: 70-90
CAS#: 8009-03-8
EC#: 232-373-2

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

EXTINGUISHING 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

INGREDIENT	UNITS
Zinc Chloride	
ACGIH TLV	1 mg/m3
OSHA PEL	1 mg/m3
Ammonium Chloride	
ACGIH TLV	10 mg/m3
OSHA PEL	10 mg/m3
Petrolatum	
ACGIH TLV	N/D
OSHA PEL	N/D

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.
Laundry contaminated clothing before reuse.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A
SPECIFIC GRAVITY (H2O = 1): 1.06
VAPOR PRESSURE (mm Hg): < 0.01 @ 68 F (20 C)
MELTING POINT: 120-150 F (52-66 C)
VAPOR DENSITY (AIR = 1): N/A
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)
Flash POINT >400 F (204 C) SETA CC
LOWER EXPLOSION LIMIT N/D
UPPER EXPLOSION LIMIT N/D

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
	BOD	None
	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

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	SARA 313	No
	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