

MATERIAL SAFETY DATA SHEET

MSDS 0499

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

		HMIS CODES
PRODUCT NAME		Health :
Nokorode 95/5 Pre-Tinning Paste Flux		Flammability :
		Reactivity :
PRODUCT CODES		PPI 1
14115		
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
Houston, Texas 77055 USA		
DATE OF PREPARATION		TECHNICAL SERVICE TELEPHONE NO
August 7, 2002		(800) 231-3345

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
<20	7646-85-7	Zinc Chloride	
		ACGIH TLV	1 mg/m3
		OSHA PEL	1 mg/m3
<1	12125-02-9	Ammonium Chloride	
		ACGIH TLV	10 mg/m3
		OSHA PEL	10 mg/m3
<10	1314-13-2	Zinc Oxide	
		ACGIH TLV	5 mg/m3
		OSHA PEL	5 mg/m3
-	7440-31-5	Tin	
		ACGIH TLV	2 mg/m3
		OSHA PEL	2 mg/m3
<1	7440-36-0	Antimony	
		ACGIH TLV	0.5 mg/m3
		OSHA PEL	0.5 mg/m3

Section 3 -- HAZARDS IDENTIFICATION

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

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 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

FLASH POINT	LEL	UEL
>230 F (110 C) SETA CC	N/D	N/D

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 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 thorough 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-----

--Zinc-Chloride-----

RESPIRATORY PROTECTION SPECIFY TYPE

TSCA Inventory Yes
CERCLA RQ 1000 lbs.
RCRA Code N/A

Ammonium Chloride

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

Zinc Oxide

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

Tin

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

Antimony

SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 5000 lbs.
RCRA Code N/A

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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

	WATERFOWL TOXICITY	N/D
	BOD	N/A
Zinc Oxide	AQUATIC TOXICITY: 6 ppm/96 hr/sunfish TLm	
	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY:	N/D
Tin	Food Chain Concentration Potential	N/D
	WATERFOWL TOXICITY	N/D
	BOD	N/D
	AQUATIC TOXICITY:	N/D
Antimony	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.

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Section 14 -- TRANSPORTATION INFORMATION

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

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Section 15 -- REGULATORY INFORMATION

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

Antimony

SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	5000 lbs.
RCRA Code	N/A

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