

## SAFETY DATA SHEET

# NOKORODE<sup>®</sup> AQUA FLUX<sup>™</sup>

Water washable flux

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name Nokorode Aqua Flux

Product Codes 74044, 74046, 74047, 74060

Chemical Family Organic/Inorganic

Use

Soldering flux

Manufacturer's Name RectorSeal LLC 2601 Spenwick Drive Houston, Texas 77055 USA

Date of validation January 20, 2022

Date of Preparation August 1, 2012 HMIS Codes

- Health 1 Flammability 1
  - Reactivity 0
    - PPI B

Emergency Telephone No. Chemtrec 24 Hours (800) 424-9300 USA (703) 527-3887 International

Technical Service Telephone No. (800) 231-3345 or (713) 263-8001

## SECTION 2 - HAZARDS IDENTIFICATION

#### **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

## SECTION 2 - HAZARDS IDENTIFICATION

#### **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



GHS07: Exclamation Mark/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

Percentage By Weight: CAS Number:	
Percentage By Weight: CAS#:	Ethanolamine hydrochloride < 10 2002-24-6 217-900-6
Percentage By Weight: CAS#:	Paraffinic Oil < 10 64742-01-4 265-101-6
Percentage By Weight: CAS Number:	
Percentage By Weight:	9003-11-6
	-
Percentage By Weight:	9036-19-5

## 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:	Immediately flush with large amounts of water for at least 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

Ammonium Chloride ACGIH TLV: 10 mg/m3 OSHA PEL: 10 mg/m3 Ethanolamine hydrochloride N/D ACGIH TLV: OSHA PEL: N/D Paraffinic Oil ACGIH TLV: N/D N/D OSHA PEL: **Petroleum Deriviatives** ACGIH TLV: N/D N/D OSHA PEL: Polyethylene-polypropylene glycol ACGIH TLV: N/D OSHA PEL: N/D Glycerine ACGIH TLV: N/D OSHA PEL: N/D Polyethylene glycol octylphenyl ether 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 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

BOILING POINT	N/A
SPECIFIC GRAVITY (H20 = 1)	0.98
VAPOR PRESSURE (MMHG)	< 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

#### **Chronical Health Hazards:**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

#### **Toxicology Data:**

Ingredient name

Ammonium Chloride Oral-Rat LD50: 1650 mg/kg Inhalation-Rat LC50: N/D Ethanolamine Hydrochloride Oral-Rat LD50: N/D Inhalation-Rat LC50: N/D Paraffinic Oil N/D Oral-Rat LD50: Inhalation-Rat LC50: N/D Petrolatum Deriviatives Oral-Rat LD50: N/D Inhalation-Rat LC50: N/D Polyethylene-polypropylene glycol Oral-Rat LD50: N/D Inhalation-Rat LC50: N/D Glycerine Oral-Rat LD50: 12600 mg/kg >570 mg/m3/1H Inhalation-Rat LC50: Polyethylene glycol octylphenyl ether Oral-Rat LD50: 4190 mg/kg Inhalation-Rat LC50: N/D

## SECTION 12 - ECOLOGICAL INFORMATION

#### **Ecological Data:**

Ingredient Name:	Ammonium Chloride
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/A
BOD	None
Aquatic Toxicity	6 ppm/96 hr/sunfish TLm
Ingredient Name:	Ethanolamine Hydrochloride
Ingredient Name: Food Chain Concentration	-
ũ	Potential None
Food Chain Concentration	Potential None

## SECTION 12 - ECOLOGICAL INFORMATION

Ingredient Name:	Paraffinic Oil
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D
Ingredient Name:	Petrolatum Deriviative
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D
Ingredient Name:	Polyethylene-polypropylene glycol
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D
Ingredient Name:	Glycerine
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D
Ingredient Name:	Polyethylene glycol octylphenyl ether
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/D
BOD 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:	Ammonium Chloride
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A
Ingredient Name:	Ethanolamine Hydrochloride
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A
Ingredient Name:	Paraffinic Oil
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A
Ingredient Name:	Petrolatum Deriviative
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A
Ingredient Name:	Polyethylene-polypropylene glycol
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

### **SECTION 15 - REGULATORY INFORMATION**

Ingredient Name: Glycerine SARA 313 No TSCA Inventory Yes CERCLA RQ N/A RCRA Code N/A Ingredient Name: Polyethylene glycol octylphenyl ether 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