



A CSW Industrials Company

SAFETY DATA SHEET

NOKORODE® COLD FLUX™

Does not harden in cold temperatures

SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name
Nokorode Cold Flux

Product Codes
14720, 14730

Chemical Family
Organic/Inorganic

Use
Soldering flux

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

Date of validation
April 20, 2022

Date of Preparation
April 20, 2022

HMIS Codes
Health 3
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

EMERGENCY OVERVIEW

OSHA Hazards
Corrosive

GHS Classification

Physical Hazards
None

Health Hazards
Acute Toxicity:

Oral: Not Classified
Dermal: Not Classified
Inhalation: Not Classified
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Respiratory or Skin Sensitization: Not Classified
Germ Cell Mutagenicity: Not Classified
Carcinogenicity: Not Classified

SECTION 2 - HAZARDS IDENTIFICATION

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



GHS05: Corrosive
Signal Word: **Danger**

Hazard Statements:

H314 - Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention

P102 - Keep out of reach of children.
P260 - Do not breathe dusts or mists.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P363 - Wash contaminated clothing before reuse.
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a poison center/doctor.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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 Petrolatum
Percentage By Weight 70-90
CAS Number 8009-03-8
EC# 232-373-2

Ingredient Ammonium Chloride
Percentage By Weight 10-25
CAS Number 12125-02-9
EC# 235-186-4

Ingredient Petroleum Distillates
Percentage By Weight < 10
CAS Number 64742-46-7
EC# 265-148-2

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: 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

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

Petroleum Distillates

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 (H2O = 1)	1.06
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

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

Petroleum Distillates

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

Ingredient Name: **Ammonium Chloride**

Food Chain Concentration None

Waterfowl Toxicity N/A

BOD N/A

Aquatic Toxicity 6 ppm/96 hr/sunfish/TLm

Ingredient Name: **Petrolatum**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

Ingredient Name: **Petroleum Distillates**

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

Ingredient Name: **Petrolatum**

SARA 313 No

TSCA Inventory Yes

CERCLA RQ N/A

RCRA Code N/A

Ingredient Name: **Ammonium Chloride**

SARA 313 No

TSCA Inventory Yes

CERCLA RQ N/A

RCRA Code N/A

Ingredient Name: **Petroleum Distillates**

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