

SAFETY DATA SHEET

DATE REVISED: January 1, 2015

Product Name: Ruby Fluid Soldering Flux Paste**Forney SKUs:** 38125, 60303**Manufacturer:** Forney Industries, Inc. 2057 Vermont Dr., Fort Collins, CO 80525 **Emergency****Phone Number:** 1-800-535-5053**International Emergency Phone Number:** 352-323-3500**Other Information Calls:** 1-800-851-6038**Email:** customerservice@forneyind.com

To the Purchaser: This SDS contains important environmental, health, and toxicology information for your employees who have ordered this product. Please be sure this information is given to them. If you resell this product, a copy of the SDS should be given to the buyer.

H.M.I.S. INFORMATION: HEALTH = 1 FLAMMABILITY = 1 REACTIVITY = 1

SECTION 1 - IDENTIFICATION

Common Name: Ruby Fluid Paste**Chemical Family:** Soft Soldering Flux**CAS Number:** NA**Chemical Name:** NA**Formula:** See below

SECTION 2 – HAZARDS IDENTIFICATION

Classification of Substance or Mixture:

Classification (CLP): NA**Label Elements (CLP):** NA

Irritant Environmentally Damaging

Precautionary Phrases: P264, P270, P273, P280, P301+P312, P305+P351+P338, P330, P337+P313, P301+P330+P331, P304+P340, P309+P311**Risk Phrases:** R36/37/38, R34**Safety Phrases:** S-26, S-27, S-36/37/39, S-45, S18, S61, S62, S64

See section XVI for full text description of S and R phrases

Other Hazards: None if used properly

SECTION 3 - COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL	H Phrases
Zinc Chloride	7646-85-7	15-30	1 mg/m ³	H302, H314, H319, H335, H400, H401

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove to fresh air.
Eyes: Flush with water for fifteen (15) Minutes. Call physician.
Skin: Wash thoroughly with soap and water.
Ingestion: If patient is fully conscious, give large amounts of water. Obtain medical attention immediately.

Most Important Symptoms and effects, both acute and delayed:

Primary Routes of Entry into Body: Fume inhalation, ingestion, skin, and eyes.

Symptoms of Overexposure: Salivation, coughing, choking, chills, may cause weight loss, brittle bones, anemia, and stiff joints.

Medical Conditions Generally Aggravated by Exposure: Any weakness of the lungs, kidneys or liver will be aggravated.

Chemical Listed as Carcinogen or Potential Carcinogen: None

OSHA Permissible Exposure Limit (PEL): NA

ACGIH Threshold Limit Value (TLV): NA

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 204°C/400°F

Flammable Limits: NA

Extinguishing Media: Dry chemical, CO₂ foam

Auto Ignition Temperature: NA

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: Will not occur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Spilled: Clean up and dispose of in accordance with EPA regulations.

SECTION 7 - HANDLING AND STORAGE

Storage Requirements: Store in plastic containers in cool area, away from heat.

Handling Precautions: Safe precautionary practices to avoid spills and exposure to skin and fumes.

Other Precautions: NA

SECTION 8 - CONTROL MEASURES

Respiratory Protection (TYPE): NIOSH approved respirator.

Ventilation: Yes

Mechanical (General): Explosion proof

Local Exhaust: Yes

Protective Gloves: Recommended, NIOSH approved

Other Protective Clothing or Equipment: Rubber apron is recommended.

Eye Protection: Safety Glasses

Regulatory Information: The chemical components are listed on TSCA and DSL inventory. See Composition in Section 3 for CAS numbers.

SECTION 9 - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: >400°F

Specific Gravity (Water = 1): 1.08

Vapor Pressure (mm Hg): NA

Percent Volatile by Volume: NA

Vapor Density (Air = 1) : >1

Evaporation Rate (Butyl Acetate = 1): NA

Melting Point: > 100°F

Solubility in Water: Soluble

Reactivity in Water: None

Appearance and Odor: Red-colored paste, no characteristic odor

SECTION 10 - STABILITY AND REACTIVITY

Stability: Product is stable

(Conditions to Avoid): Metals

Incompatibility: Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.

Hazardous Decomposition Products: HCl, zinc chloride, zinc oxide, ammonium.

Hazardous Polymerization: Will not occur

(Conditions to Avoid): Excessive heat or cold

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
- 2) **Eye Irritation:** (rabbit): Not available

SECTION 12 - ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with EPA regulations

SECTION 14 - TRANSPORTATION

D.O.T. Proper Shipping Name: NA

Hazard Class: NA

Identification Number: NA

Packing Group: NA

Type D.O.T Label Required Information: NA

SECTION 15 - REGULATORY INFORMATION

OSHA Hazardous Chemical According to 29 CFR 1910.1200: NA

Carcinogenicity Classification: (Components Present at 0.1% or More)

International Agency for Research on Cancer (IARC): NA

American Conference of Governmental Industrial Hygienists (ACGIH): NA

National Toxicology Program (NTP): NA

Occupational Safety and Health Administration (OSHA): NA

All Components of this Product are Listed on the U.S. Toxic Substances Control Act Inventory or Otherwise Comply with TSCA Pre-manufacture Notification Requirements.

This product is RoHS compliant.

SECTION 16 - OTHER INFORMATION

The labeling of this product is indicated in Section 2. The full text of all abbreviations indicated by codes in the SDS are as follows:

R34	Causes burns
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
S-18	Handle and open container with care.
S-26	In case of eye contact, rinse thoroughly and get medical attention.
S-27	Take off immediately contaminated clothing.
S-36/37/39	Wear suitable protective clothing, gloves, and eye/face protection.
S-45	In case of accident or if feel unwell call medical advice immediately.
S61	Avoid release to the environment. Refer to special instructions/safety data sheet.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible.
S64	If swallowed, rinse mouth with water (only if the person is conscious).
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P330 Rinse mouth
- P337+P313 If eye irritation persists get medical advice/attention
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P309+P311 IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
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- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H401 Toxic to aquatic life
- H314 Causes severe skin burns and eye damage
- H335 May cause respiratory irritation
- H400 Very toxic to aquatic life

Further information:

Judgments as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility. Reasonable care has been taken in the preparation of this material, but there are NO WARRANTIES, NO REPRESENTATIONS AND NO RESPONSIBILITY AS TO THE ACCURACY OR THE SUITABILITY OF THIS INFORMATION FOR ANY PURCHASER'S USE OR FOR ANY CONSEQUENCE TO USE.

END OF SAFETY DATA SHEET