

**SAFETY DATA SHEET**

GHS SDS Date: 01/01/2025

SDS Name: KappZipp Paste Flux™ for Metals Other Than Aluminum 200–600°F / 95–315°C

SDS Number: 554

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**SECTION I: PRODUCT AND COMPANY INFORMATION**

Product Name: KappZipp Paste Flux™ for Metals Other Than Aluminum 200–600°F / 95–315°C

CAS Number:

Component	CAS Number	ECHA No.	Component	CAS Number	ECHA No.
Zinc Chloride	7646-85-7	231-592-0	Petrolatum	8009-03-8	232-373-2

Company Identification: Kapp Alloy and Wire, Inc., 1 Klein Street / PO Box 1188, Oil City, PA 16301

Contact: Telephone: 814-676-0613 or 1-800-327-6533, Email: [info@kappalloy.com](mailto:info@kappalloy.com)**SECTION II: HAZARD INFORMATION**

Classification of the mixture according to Regulation (EC) No. 1272/2008 and OSHA 29 CFR 1910



GHS07

Skin Irritation 2 H314 - Causes severe skin burns and eye damage.



Aquatic Toxicity

H401: Toxic to aquatic life



GHS07

**Label Elements:** Hazard Pictograms  
 Labelling according to Regulation (EC) No 1272/2008

**Signal word:** Caution

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation.

H401: Toxic to aquatic life

Precautionary statements:

P264 - Wash 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.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Target Organ Statement

- Causes severe burns to skin, eyes, and respiratory system

Effects of Chronic Exposure

- Contact burns, irritation to skin (scarring), eyes & respiratory system.
- Possible liver and kidney effects.

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**SECTION III: COMPOSITION / INGREDIENTS**

\*(Hazardous components 1% or greater; Carcinogens 0.1% or greater)

COMPONENT	CAS NO.	ECHA No.	OSHA PEL	HAZARD
Zinc Chloride	7646-85-7	231-592-0	1mg/m <sup>3</sup>	Corrosive

PEL = Permissible Exposure Limit; NA = Not Applicable; NE = Not Established; NAIF = No Applicable Information found

None of the ingredients are listed in NTP, IARC, or OSHA as carcinogens.

**SECTION IV: FIRST AID MEASURES**

Ingestion:	Call a physician or Poison Control Center. Advise of chemical composition (Section III). Do not induce vomiting. Give large quantities of water, milk, or 5% sodium bicarbonate solution.
Skin:	Promptly flush with water to remove any residue. If a rash or burn develops, consult a physician. Product is corrosive.
Inhalation:	Terminate exposure and remove to fresh air. Call physician; advise of chemical composition (section III). Provide oxygen.
Eyes:	Flush with water for at least 15 minutes to remove irritant. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

**SECTION V: FIRE FIGHTING MEASURES**

Flash point:	400°F / 204°C
Auto Ignition Temperature:	N/A
Flammability Limits:	(in air, % by volume) •LEL: N/A, •UEL: N/A

**Extinguisher Media: Water, fog, or foam.****DO NOT USE WATER ON MOLTEN METAL:  
LARGE FIRES MAY BE FLOODED WITH WATER FROM A DISTANCE**

Special Fire Fighting Procedures	Full protective equipment required. May release zinc oxide and HCl fumes. Toxic metal halide fumes produced.
Unusual Fire and Explosion Hazards	Will Not Occur.

**EMERGENCY PHONE NUMBER: CALL CHEMTREC (800) 424-9300 – AVAILABLE 24 HOURS****SECTION VI: ACCIDENTAL RELEASE MEASURES**

Steps to be taken if material is spilled or released:

- Contain, absorb, sweep-up, and dispose. Environmental Precautions: Avoid release to the environment. Collect spillage. Dispose of in accordance with EPA and other environmental regulations.

**SECTION VII: HANDLING AND STORAGE**

Precautions to be taken in handling and storage:

- Store flux in a well-sealed plastic container in cool area away from heat. Wash thoroughly after handling to remove all residue. No eating or smoking in work area.

Other Precaution / Special Handling:

- Do not take internally. Avoid eye and skin contact. Avoid inhaling mist or dust. Professionally wash contaminated clothing before re-use.

**SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory Protection: Use NIOSH-approved breathing apparatus to prevent exposure to dusts and fumes.

Eye Protection: Approved safety glasses/welding goggles, appropriate to your procedure, should be worn.

Ventilation: Local Exhaust: YES; Mechanical: YES Maintain airflow away from user to remove all fumes and vapors, so that the PEL is never exceeded. Special: Conform to your

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regulatory statutes.  
 Other: Full protective equipment normally used in soldering (/applicable) operations so as to prevent any contact. Review operations to avoid contact with hazardous gas, liquids or solids. \*Conform to all local, state, federal regulations.

See also: 29 CFR 1910.132 - 29 CFR 1910.140. *Personal Protective Equipment*  
 29 CFR 1910.251 - 29 CFR 1910.257. *Welding, Cutting and Brazing*

**SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: >400°F / 204°C @ 760 mmHg  
 Specific Gravity: (H<sub>2</sub>O = 1 @ 72°F): 1.08  
 Active Temperature Range: Active between 200–600°F / 95–315°C  
 Solubility in Water: Soluble  
 Evaporation Rate (Butyl Acetate = 1): NA  
 Appearance and Odor: Red colored Paste with no significant odor.  
 Use: General purpose low temperature soft soldering flux.

**SECTION X: STABILITY AND REACTIVITY**

Stability: Stable  
 Conditions to avoid: Metals will react with flux. Excessive Heat or Cold.  
 Incompatibility (materials to avoid): Strong Acids, Strong Alkalis, Strong oxidizing or reducing materials, cyanides or combustible materials.  
 Hazardous Decomposition Products: Zinc Chloride, Zinc Oxide, Ammonium;  
 Hazardous Polymerization will not occur

**SECTION XI: TOXICOLOGY INFORMATION**

Swallowing: Can cause damage to digestive system. Corrosive to mucous membranes.  
 Skin Absorption / Contact: Burns; immediate hazard.  
 Inhalation: Irritates respiratory system, coughing, & sneezing. Aggravates existing lung disorders.  
 Eye Contact: Irritation to eyes, tearing, burns eye surfaces, corrosive to eyes.

	*0 = Insignificant	1 = Slight	2 = Moderate	3 = High	4 = Extreme
	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Special</b>	
<b>NFPA Rating</b>	1	1	1	0	
<b>HMIS Rating</b>	1	1	1	0	

**SECTION XII: ECOLOGY INFORMATION**

This product will biodegrade. Slight ecological hazard. In high concentrations, this product may be dangerous to plants, wildlife, and/or aquatic life. General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment:** PBT: Not applicable; vPvB: Not applicable.

**SECTION XIII: DISPOSAL CONSIDERATION**

Waste Disposal Method

- Must not be disposed of together with household garbage.
- Dispose of according to federal, state, local, international, EPA and OSHA regulations.

**SECTION XIV: TRANSPORT INFORMATION**

**Ground - DOT Proper Shipping Name: Soldering Flux**  
 Not regulated for transport by US DOT.

**Air - IATA Proper Shipping Name: Soldering FLux**  
 Not regulated for air transport by IATA.

**SECTION XV: REGULATORY INFORMATION****SARA Title III Program:**

- This product contains the following toxic chemicals subject to the reporting requirements of EPCRA of 1986 and 40 CFR 372

CHEMICAL NAME	CAS NO.	COMPOSITION
Zinc Compounds	N/E	< 50%

**TOXIC SUBSTANCE CONTROL ACT:** All components of this compound are listed within the TSCA inventory or otherwise comply with the TSCA Pre-manufacture notification program.

**RoHS, REACH, and REACH-SVHC Compliance:**

This Product is RoHS and REACH Compliant. This product is free of REACH-SVHC substances.

**SECTION XVI: OTHER INFORMATION**

This information must be included in all SDS that are copied and distributed for this material.

**GOOD HOUSEKEEPING PROCEDURES SHOULD BE MAINTAINED.  
PERSONNEL SHOULD WASH THOROUGHLY BEFORE SMOKING OR EATING  
FOOD AND DRINK SHOULD NOT BE CONSUMED, TOBACCO PRODUCTS USED, OR COSMETICS  
APPLIED IN AREAS WHERE EXPOSURES EXIST.**

Please retain this sheet for your files. Kapp Alloy maintains a file of Safety Data Sheets (SDS) for each alloy produced in compliance with Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) & various right-to-know laws.

The information and recommendations contained within this publication have been compiled from sources believed to be reliable and to represent the best information available to Kapp Alloy and Wire, Inc. at the time of issue. It is our policy to include an SDS with initial orders for each product. This submission is to become a matter of record and need not accompany subsequent shipments for the same product to the same customer. The information contained on this sheet is intended solely for employee health and safety education and not for contract specification purposes. No warranty, guarantee, or representation is made by Kapp Alloy and Wire, Inc., nor does Kapp Alloy and Wire, Inc. assume any responsibility in connection there within; nor can it be assumed that all acceptable safety measures or other safety measures may not be required under particular or exceptional conditions or circumstances. Should you need additional information, contact us.