



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

### Product identifier

**Product name:** Service Paste V

### Other means of identification

**Product code:** 819

### Recommended use of the chemical and restrictions on use

**Recommended use:** Soldering flux

### Details of the supplier of the safety data sheet

**Manufacturer:** Force Industries Division.  
28 Industrial Blvd. Paoli, PA 19301.

### Emergency Telephone number

For hazardous materials incidents only, call CHEMTREC Emergency Response Number:

1-800-424-9300.

For all other inquiries about this product, call Force Industries Division at 610-647-3575.

**Revision Date:** May 31, 2017

**Supersedes Date:** July 9, 2007

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### **GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin Corrosion (Category 1B), H314

Serious Eye Damage (Category 1), H318

Specific target organ toxicity – single exposure (Category 3), Respiratory System

Acute Aquatic Toxicity (Category 1), H400

Chronic Aquatic Toxicity (Category 1), H410

### **Hazard statement(s)**

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects



## 2.2 GHS Label elements, including precautionary statements

### Emergency overview

<b>Appearance:</b>	Off White
<b>Physical state:</b>	Paste
<b>Odor:</b>	None
<b>Signal Word:</b>	Danger



### Precautionary statement(s)

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray  
 P264: Wash skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well-ventilated area  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312+P330+P331: IF SWALLOWED: Immediately call a POISON CENTER or physician, rinse mouth and DO NOT induce vomiting.  
 P302+P352: IF ON SKIN: Wash with plenty of water  
 P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304+P340+P311+P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Contact a physician  
 P321: Specific treatment see section 2.3  
 P332+P313: If skin irritation occurs: Get medical advice/attention  
 P337+P313: If eye irritation persists: Get medical advice/attention.  
 P362: Take off contaminated clothing  
 P363: Wash contaminated clothing before reuse.  
 P391: Collect spillage.  
 P403+P233: Store in a well ventilated place and keep container tightly closed.  
 P405: Store locked up.  
 P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None



### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Weight %</u>
Zinc Chloride	7646-85-7	231-592-0	10 – 20%
Stearic Acid	57-11-4	200-313-4	1 – 6%
Petrolatum, USP	8009-03-8	232-373-2	60 – 75%
Sodium Fluoride	7681-49-4	231-667-8	<1%

Others, if any, are non-hazardous and claimed as trade secret.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eyes:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician immediately. Continue rinsing eyes during transport to hospital.

**Skin:** Wash off with plenty of water. Consult a doctor if a rash or burn develops.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available



## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Dry chemical, carbon dioxide or foam. Do not use water.

### 5.2 Special hazards arising from the substance or mixture

In presence of water and heat, may release zinc oxide and HCl fumes. Toxic metal halide fumes produced.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Full protective equipment required.

### 5.4 Further information

No data available.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3 Methods and materials for containment and cleaning up

Contain spill, absorb, and dispose. Flush area to chemical sewer.

### 6.4 Reference to other sections

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of vapor or mist. Provide appropriate exhaust ventilation. Professionally wash contaminated clothes before re-use. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store paste at ambient conditions. Wash thoroughly after handling to remove all residue.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****Components with workplace control parameters**

Components	CAS	OSHA PEL	ACGIH TLV-TWA
Petrolatum, USP	8009-03-8	2 mg/m <sup>3</sup> (oil mist)	2 mg/m <sup>3</sup> (oil mist)
Stearic acid	57-11-4	No Data	No Data
Zinc chloride	7646-85-7	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>
Sodium fluoride	7681-49-4	2.5 mg/m <sup>3</sup> as F	2.5 mg/m <sup>3</sup> as F

**8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state:	Off White paste
Odor:	None
Flash point:	N/E
Vapor pressure:	N/A
Vapor density:	N/A
Boiling Point:	N/E
Specific gravity:	0.98 (H <sub>2</sub> O = 1 at 72°F)
Solubility in water:	Very slightly
Evaporation Rate (butyl acetate = 1) N/A	

**9.2 Other safety information**

None

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Strong acids, oxidizers, cyanide

**10.6 Hazardous decomposition products**

In presence of water and heat: Hydrochloric and hydrofluoric acids, zinc oxide

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Component toxicity**

Components	LC50/Inhalation	LC50/Dermal/Rat	LD50/Oral/Rat
Petrolatum, USP	No data available	>2000 mg/kg	>2000 mg/kg
Stearic acid	No data available	No data available	4600 mg/kg
Zinc chloride	No data available	No data available	500 mg/kg
Sodium fluoride	No data available	No data available	148.5 mg/kg

**11.2 Effects of Acute Overexposure:**

- a. Inhalation: No data available.
- b. Eyes: No data available
- c. Skin Contact: No data available
- d. Ingestion: No data available.

**11.3 Primary Route of Exposure:**

Skin, eyes, respiratory

**11.4 Effects of Chronic Exposure:**

No data available.

**11.5 Target Organs:**

No data available

**11.6 Reproductive Effects**

No data available

**11.7 Carcinogenicity:**

No data available



## SECTION 12: ECOLOGICAL INFORMATION

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Components	LC50/96hr/48hr/24hr	EC50/96/48hr/24hr	Bioaccumulation Concentration Factor	No Observable Effect Concentration/96hr/48hr/24 hr
Petrolatum, USP	No Data	No Data	No data	No data
Stearic acid	No Data	No Data	No data	No data
Sodium fluoride	200 mg/l (rainbow trout)	98 mg/l – Daphnia magna (water flea – 48 hr.)	No data	No data

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bio-accumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product: offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of in accordance with all federal, state, and local regulations.

#### Contaminated packaging

Dispose of as unused product.





## SECTION 14: TRANSPORT INFORMATION

### DOT (US) – Domestic Ground

Proper Shipping Name: Corrosive liquid, n.o.s. (Zinc chloride, sodium fluoride)

Hazard Class: 8

ID & Packing group number: UN1760, PG III

ERG Guide number: 154

## SECTION 15: REGULATORY INFORMATION

### International Inventories

USA (TSCA): Complies

### Federal Regulations

#### CERCLA Reportable Quantities

This product contains zinc chloride – reportable quantity – 1000 Lbs.

#### SARA Title III 313 Reportable Substances

This product does contain chemicals which are subject to the reporting requirements of the Act and of Title 40 of the Code of Federal Regulations, Part 372

Zinc chloride – 7646-85-7

#### SARA Title III Section 311/312 Hazard Categories:

Acute Health Hazard

Chronic Health Hazard

#### Toxic Substance Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification Section 12 (b) of TSCA:

None

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



## SECTION 16: OTHER INFORMATION

**HMIS:**

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**PREPARATION INFORMATION:** Technical Service Department, Force Industries Division

**DISCLAIMER:** The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Force Industries makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon. Force Industries warrants only that its products conform to their published specifications and no other express warranty is made with regards thereof. We do not guarantee favorable results, and we assume no liability in connection with the use of the products. They are intended for use by persons having technical skill and knowledge, at their own discretion and risk.