

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Weld-On® Soldering Flux Paste  
**PRODUCT USE:** Soldering Flux  
**SUPPLIER:**

**MANUFACTURER:** IPS Corporation  
 17109 South Main Street, Gardena, CA 90248-3127  
 P.O. Box 379, Gardena, CA 90247-0379  
 Tel. 1-310-898-3300

**EMERGENCY:** Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International) **Medical:** CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION:

Health	Environmental	Physical
Oral: Not Classified Dermal: Not Classified Inhalation: Not Classified Skin Corrosion/Irritation: Not Classified	Aquatic Environment: Not Classified Acute aquatic toxicity: Not Classified Chronic aquatic toxicity: Not Classified	None Known

**GHS LABEL:**



**Signal Word:**  
**WARNING**

**WHMIS CLASSIFICATION:** None

#### 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.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	EINECS #	REACH	CONCENTRATION
			Pre-registration Number	% by Weight
Zinc Chloride	7646-85-7	231-592-0	05-2115142103-66-0000	10-25
Ammonium Chloride	12125-02-9	235-186-4	05-2115141987-35-0000	10-25
Petrolatum	8009-03-8	232-373-2	05-2115142117-57-0000	70-90

All of the constituents of this product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

\* Indicates that this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

# indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

### SECTION 4 - FIRST AID MEASURES

**Contact with eyes:** Flush eyes with plenty of water for 15 minutes. Get medical attention if irritation develops or persists.  
**Skin contact:** Wash exposed area with mild soap and water. Get medical attention if irritation develops or persists.  
**Inhalation:** Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.  
**Ingestion:** Do not induce vomiting. Get immediate medical help.

### SECTION 5 - FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water Fog, CO2 Foam, Dry Chemical  
**Unsuitable Extinguishing Media:** Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only  
**Exposure Hazards:** Mists or sprays could ignite at temperatures below the indicated flash point.  
**Combustion Products:** Zinc, chlorine and HLC may evolve  
**Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks.

	HMIS	NFPA	
Health	1	0-Minimal	1-Slight
Flammability	1	2-Moderate	
Reactivity	0	3-Serious	
PPE	B	4-Severe	

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Clear spills to avoid slip/trip hazards. Non-essential personnel should not enter area due to slipping hazards. Prevent contact with skin or eyes (see section 8).  
**Environmental Precautions:** Do not flush into sewers, drains, natural waterways or soil.  
**Methods for Cleaning up:** Wipe up spills as required.  
**Materials not to be used for clean up:**

### SECTION 7 - HANDLING AND STORAGE

**Handling:** Avoid prolonged or repeated contact with skin, clothing and/or breathing of fumes when handling/soldering. Keep containers closed and upright when not in use. Wash thoroughly after handling to remove all residue. Wash exposed areas before eating, drinking, smoking, or leaving work area. Launder contaminated clothing.  
**Storage:** Store flux at ambient temperatures. Follow all precautionary information on container label, product bulletins and literature. Empty containers may contain residue - do not re-use.

### SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH 8hr TLV	ACGIH STEL	OSHA 8hr PEL	OSHA 15 min STEL	OSHA Ceiling	CAL/OSHA 8hr PEL	CAL/OSHA 15 min STEL	CAL/OSHA Ceiling
	Zinc Chloride (fume)	1 mg/m3	2 mg/m3	1 mg/m3	2 mg/m3	N/E	1 mg/m3	2 mg/m3	N/E
	Ammonium Chloride (fume)	10 mg/m3	20 mg/m3	10 mg/m3	20 mg/m3	N/E	10 mg/m3	20 mg/m3	N/E
	Petrolatum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**Engineering Controls:** Use local exhaust or dilution ventilation as appropriate to control fume to below permissible exposure limits  
**Monitoring:** Maintain breathing zone airborne concentrations below exposure limits.  
**Personal Protective Equipment (PPE):**  
**Eye Protection:** Safety glasses (ANSI Z-87 or equivalent).  
**Skin Protection:** Neoprene rubber or other chemical resistant material. Coveralls recommended to prevent skin contact.  
**Respiratory Protection:** Use NIOSH/MSHA approved respirators when fume concentration will exceed permissible exposure limits.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Tan paste	<b>Odor Threshold:</b>	Not Available
<b>Odor:</b>	Petroleum Odor		
<b>pH:</b>	Not Applicable		
<b>Melting/Freezing Point:</b>	Not Available	<b>Evaporation Rate:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable	<b>Flammability:</b>	N/A
<b>Flash Point:</b>	> 400°F (204° C)	<b>Flammability Limits:</b>	LEL: N/A UEL: N/A
<b>Specific Gravity:</b>	1.06 (H2O = 1)	<b>Vapor Pressure:</b>	<0.01 @ 68°F (20° C)
<b>Solubility:</b>	Insoluble	<b>Vapor Density:</b>	Not Applicable
<b>Partition Coefficient n-octanol/water:</b>	Not Available	<b>Other Data: Viscosity:</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available		
<b>Decomposition Temperature:</b>	Not Available		
<b>VOC Content:</b>	0%		

## SECTION 10 - STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	Toxic fumes of zinc, chlorine and HCL may evolve during soldering
<b>Conditions to avoid:</b>	None known. Avoid breathing soldering fumes.
<b>Incompatible Materials:</b>	None known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure:</b>	Inhalation and Ingestion
<b>Acute symptoms and effects:</b>	
<b>Inhalation:</b>	Irritation to respiratory system from solder fumes. May cause allergy / asthma symptoms or breathing difficulties.
<b>Eye Contact:</b>	Severe eye irritation and injury may occur.
<b>Skin Contact:</b>	May cause skin irritation and persistent dermal irritation/allergic reaction.
<b>Ingestion:</b>	Nausea, vomiting, irritation to digestive system.
<b>Chronic (long-term) effects:</b>	Irritation from continued skin contact can occur. Continuous exposure to fumes may result in lung damage and irritation of respiratory tract.
<b>Toxicity:</b>	LD <sub>50</sub> LC <sub>50</sub>
Zinc Chloride	350 mg/kg (oral rat) LCLo: 1960 mg/m <sup>3</sup> /10 mins (rat)
Ammonium Chloride	165 0mg/kg (oral rat) Not Available
Petrolatum	Oral-Rat N/D Inhalation-Rat:N/D

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Not Established	Not Established	Not Established	Not Established	Not Established

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<b>Zinc Chloride</b>	Food Chain Concentration Potential	None
		WATERFOWL TOXICITY	N/A
		BOD	None
		AQUATIC TOXICITY:	7.2 ppm/96 hr/medium bluegill/TLm
	<b>Ammonium Chloride</b>	Food Chain Concentration Potential	None
		WATERFOWL TOXICITY	N/A
		BOD	N/A
		AQUATIC TOXICITY:	6 ppm/96 hr/sunfish TLm
	<b>Petrolatum</b>	Food Chain Concentration Potential	N/D
		WATERFOWL TOXICITY	N/D
		BOD	N/D
		AQUATIC TOXICITY:	N/D
<b>Mobility:</b>	Not Available		
<b>Degradability:</b>	Not Available		
<b>Bioaccumulation:</b>	Pimephales promelas (fathead minnow) - 63 days	Bioconcentration factor (BCF):	21,000

## SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Non-regulated solid waste. 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 regulations at an approved landfill.

## SECTION 14 - TRANSPORT INFORMATION

<b>Proper Shipping Name:</b>	Not Regulated
<b>Hazard Class:</b>	N/A
<b>Secondary Risk:</b>	N/A
<b>Identification Number:</b>	N/A
<b>Packing Group:</b>	N/A
<b>Label Required:</b>	N/A
<b>Marine Pollutant:</b>	N/A

## SECTION 15 - REGULATORY INFORMATION

<b>Precautionary Label Information:</b>	Irritant	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia
<b>Symbols:</b>	Xi		AICS, Korea ECL/TCCL, Japan MITI (ENCS)
<b>Risk Phrases:</b>	R36/37: Irritating to eyes and respiratory system.	R66:	Repeated exposure may cause skin dryness or cracking
<b>Safety Phrases:</b>	S2: Keep out of the reach of children S9: Keep container in a well-ventilated place.	S25:	Avoid contact with eyes.

## SECTION 16 - OTHER INFORMATION

<b>Specification Information:</b>		
<b>Department issuing data sheet:</b>	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European
<b>E-mail address:</b>	<EHSinfo@ipscorp.com>	Directive on RoHS (Restriction of Hazardous Substances).
<b>Training necessary:</b>	Yes, training in practices and procedures contained in product literature.	
<b>Reissue date / reason for reissue:</b>	3/6/2015 / Updated GHS Standard Format	
<b>Intended Use of Product:</b>	Solder flux	

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.