



## GHS SAFETY DATA SHEET

Date Revised: DEC 2013

## Weld-On® Soldering Flux Paste

Supersedes: MAR 2013

## 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
Acute Toxicity: Category 4	Acute Toxicity: None Known	None Known
Skin Irritation: Category 3	Chronic Toxicity: None Known	
Respiratory Sensitization: Yes		
Eye: Category 2A		

GHS LABEL:



Signal Word: Danger

WHMIS CLASSIFICATION: None

## Hazard Statements

H315: Causes skin irritation  
H319: Causes severe eye irritation  
H332 Harmful if inhaled  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335: May cause respiratory irritation

## Precautionary Statements

P261: Avoid breathing fume/gas/mist/vapors/spray  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P501: Dispose of contents/container in accordance with local regulation

## 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 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 HCL may evolve  
**Protection for Firefighters:** Self-contained breathing apparatus or full-face positive pressure airline masks.

	Health	Flammability	Reactivity	PPE	HMIS	NFPA	0-Minimal
	1	1	0	B			1-Slight
							2-Moderate
							3-Serious
							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 TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Zinc Chloride (fume)	1mg/m <sup>3</sup>		1mg/m <sup>3</sup>	
	Ammonium Chloride	10mg/m <sup>3</sup>		10mg/m <sup>3</sup>	20mg/m <sup>3</sup>
	Petrolatum	NE		NE	

**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>Boiling Point:</b>	Not Applicable	<b>Evaporation Rate:</b>	Not Applicable
<b>Flash Point:</b>	> 400°F (204 C)	<b>Flammability:</b>	N/A
<b>Specific Gravity:</b>	1.06 (H2O = 1)	<b>Flammability Limits:</b>	LEL: N/A UEL: N/A
<b>Solubility:</b>	Insoluble	<b>Vapor Pressure:</b>	<0.01 @ 68F (20 C)
<b>Partition Coefficient n-octanol/water:</b>	Not Available	<b>Vapor Density:</b>	Not Applicable
<b>Auto-ignition Temperature:</b>	Not Available	<b>Other Data: Viscosity:</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	350mg/kg (oral rat)	1960 mg/m <sup>3</sup> /10 mins (rat)	
Ammonium Chloride	1650mg/kg (oral rat)	Not Available	
Petrolatum	Not Available	Not Available	

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>	Aquatic toxicity: 7.2ppm/96 hr/medium bluegill/TLm
<b>Mobility:</b>	Not Available
<b>Degradability:</b>	Not Available
<b>Bioaccumulation:</b>	Not Available

### 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>	NA
<b>Secondary Risk:</b>	NA
<b>Identification Number:</b>	NA
<b>Packing Group:</b>	NA
<b>Label Required:</b>	NA
<b>Marine Pollutant:</b>	NA

### SECTION 15 - REGULATORY INFORMATION

<b>Precautionary Label Information:</b>	Irritant	<b>Ingredient Listings:</b>	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.	<b>R66:</b>	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.	<b>S25:</b>	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 Directive on RoHS (Restriction of Hazardous Substances).
<b>E-mail address:</b>	<EHSinfo@ipscorp.com>	
<b>Training necessary:</b>	Yes, training in practices and procedures contained in product literature.	
<b>Reissue date / reason for reissue:</b>	12/5/2013 / 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.