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# SAFETY DATA SHEET

Section 1: **Product and Company Identification** 

**Product Name:** Regular Soldering Flux Paste

**Product Use:** Soldering flux for copper, brass, galvanized iron, lead, zinc, tin, silver, nickel, mild steel, terne plate and

malleable iron.

Manufacturer: LA-CO Industries, Inc.

1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746

**Phone Number:** (847) 956-7600

A·CD Markal \*

Fax: (847) 956-9885

24-hour Emergency: CHEMTREC: (800) 424-9300

#### Section 2: **Hazards Identification**

Protective Clothing	NFPA Rating (USA)	EU Classification	WHMIS (Canada)	Transportation
	000	Not classified as dangerous	Not controlled	Not Regulated

Exposure to hazardous substances is not expected when handling this product for its intended **Emergency Overview:** 

Appearance, Color and Odor: White paste; faint odor.

USA: This material is not considered hazardous by the OSHA hazard Communication

Standard (29 CFR 1910.1200).

Canada: This is not a controlled product under WHMIS.

European Union (EU): This product is not classified as dangerous according to Directive

1999/45/EC and its amendments.

ACUTE (short term): see Section 8 for exposure controls **Potential Health Effects** 

Relevant Route(s) of Exposure: Skin contact, Inhalation.

> Inhalation: Inhalation of vapors is not expected with normal use. Over exposure to high vapor

concentrations may cause nasal and respiratory irritation, sore throat, coughing and difficulty breathing. High concentrations may also cause dizziness, headache, nausea, vomiting or in

extreme cases, unconsciousness or asphyxiation.

Ingestion: Not an expected route of occupational exposure. Low oral toxicity. Swallowing large

quantities may cause abdominal and chest pain, nausea, vomiting, diarrhea or dizziness. Aspiration into the lungs may occur during swallowing or from vomiting, resulting in lung injury.

Skin: This product has been tested and found to be non-irritating to skin.

This product has been tested and found to be non-irritating to eyes. Solids may cause

temporary irritation as a foreign object in the eye.

CHRONIC (long term): see Section 11 for additional toxicological data

Chronic effects are not expected with normal use. Prolonged or repeated over exposure to

high vapor concentrations may cause damage to the respiratory tract or lungs.

**Medical Conditions Aggravated by** 

**Exposure:** 

Not available

Interactions With Other Chemicals: Not available **Potential Environmental Effects:** Not available



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# Section 3: Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical Name	CAS No.	<u>Wt.%</u>	EINECS / ELINCS	<u>Symbol</u>	<u>Risk Phrases</u>
Ammonium Chloride	12125-02-9	7 – 13	235-186-4	Xn, Xi	R22, R36
2-hydroxyethylammonium chloride	2002-24-6	7 - 10	217-900-6	Not classified	Not classified
Stearic Acid	57-11-4	1 – 5	200-313-4	None	None

**Note**: See Section 16 for the full text of the R-phrases above.

Section 4: First Aid Measures

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.

Eye Contact: If material becomes lodged in the eye, do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim look right and left, and then up and down. If particle/dust does not dislodge, flush with

lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, obtain medical attention. DO NOT attempt to manually remove anything stuck to eye(s).

**Skin Contact:** Quickly and gently, blot or brush away excess paste. Wash gently and thoroughly with lukewarm, gently flowing

water and non-abrasive soap for 5 minutes. If irritation develops, obtain medical advice.

Ingestion: If swallowed in large amounts or if irritation or discomfort occurs, obtain medical advice immediately.

# **Section 5:** Fire Fighting Measures

Flammable Properties: Product will burn if involved in a fire but does not ignite readily.

Suitable extinguishing Media: Use water spray, dry chemical, carbon dioxide, or an appropriate foam. Use water

spray to cool fire-exposed containers.

Unsuitable extinguishing Media: Not applicable

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not applicable
Sensitivity to Static Discharge: Not applicable

Specific Hazards arising from the Chemical: During a fire, products of combustion may include Carbon dioxide, carbon

monoxide, ammonia, hydrogen chloride, smoke and irritating and toxic fumes may

be formed.

**Protective Equipment and precautions for** 

firefighters:

Self-contained breathing apparatus and protective clothing should be worn.

Remove all unprotected personnel.

**NFPA** 

Health: 0
Flammability: 0
Instability: 0

## Section 6: Accidental Release Measures

Personal Precautions: Wear protective gloves. Spilled product may pose a slipping hazard.

**Environmental Precautions:** Prevent the product from entering sewers or waterways.

Methods for Containment: Stop the spill if it is safe to do so. Contain spilled flux with earth, sand, or absorbent material which

does not react with spilled material.

**Methods for Clean-up:** Scrape or scoop up the spilled product and collect for re-use or proper disposal. Dispose of any

contaminated, unusable product as described in Section 13 of this SDS.



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# Section 7: Handling and Storage

Handling: Avoid contact with eyes and skin; do not breathe fumes. Do not ingest. Keep out of reach of

children. Use this material with adequate ventilation. Keep container closed when not in use. Wash thoroughly with detergent and water after handling, before eating, drinking, smoking or using

the toilet.

Storage: Store in a cool, dry area, away from incompatible materials (see Section 10).

#### Section 8: Exposure Controls/Personal Protection

#### **Exposure Guidelines**

Ingredient	ACGIH TLV	U.S. OSHA PEL	Ontario (Canada)	<u>UK OEL</u>
	(8-hr. TWA)	(8-hr. TWA)	TWAEV	(8-hr. TWA)
Ammonium Chloride	10 mg/m³ (fume);	10 mg/m³ (fume);	10 mg/m³;	10 mg/m³ (fume);
	20 mg/m³ STEL	20 mg/m³ STEL	20 mg/m³ STEV	20 mg/m³ STEL
Stearic Acid	Not established	Not established	Not established	Not established

STEV = Short Term Exposure Value STEL = Short Term Exposure Limit

#### **Exposure Controls**

Engineering Controls: Provide adequate ventilation/local exhaust to keep vapor concentrations below the exposure limits

listed above.

Personal Protection: Workers must comply with the Personal Protective Equipment requirements of the workplace in which

this product is handled.

For welding operations, refer to the appropriate occupational safety standard. For operations requiring specific protection for mechanical hazards and heat protection refer to the appropriate

occupational safety standard.

Eye/Face Protection: Wear eye/face protection (e.g. goggles/face shield) appropriate for the workplace where this material

is handled and the conditions of use.

**Skin Protection:** Wear appropriate protective gloves and clean, body-covering clothing, when workplace conditions

warrant their use.

Respiratory Protection: Not required for normal use.

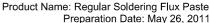
If ventilation and other engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protective equipment (RPE). Where occupational exposure limits are exceeded, workers must wear an approved respirator. In workplaces where respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Consult with respirator manufacturer to determine respirator selection, use and limitations.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements, European Standard EN529 or Canadian Standards Association (CSA) Standard Z94.4-2002 must be

followed whenever workplace conditions warrant a respirator's use.

General Hygiene Measures: Do not ingest. Avoid contact with skin and eyes. Keep out of reach of children. Wash hands after

handling.



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### Section 9: Physical and Chemical Properties

Physical State:	Paste	Vapor Pressure (mm Hg @ 25°C):	Not available
Appearance:	White	Vapor Density (Air = 1):	Not available
pH:	6.5 – 7	Solubility in Water:	Water soluble Fat insoluble
Relative Density (water = 1):	1.1	Water / Oil distribution coefficient:	Not available
Boiling Point:	Not available	Odor Type:	Low odor
Freezing Point:	Not available	Odor Threshold:	Not available
Viscosity:	Not available	Evaporation Rate (n-Butyl Acetate = 1):	Not available
Oxidizing Properties:	Not available	Auto Ignition Temperature (°C):	Not available
Flash Point and Method:	>204°C (400°F) TOC	Flammability Limits (%):	Not available

### Section 10: Stability and Reactivity

Chemical Stability: Stable at normal room temperature.

Conditions to Avoid: Not available

Incompatible Materials: Incompatible with strong oxidizing agents, strong acids, bases, amines, carbonates,

aldehydes, acid chlorides and anhydrides, aluminum, cellulose nitrate, cyanides, sulfides,

and potassium chlorate.

Hazardous Decomposition Products: Not available

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

#### Section 11: Toxicological Information

Acute Toxicity Data for the mixture: Regular Soldering Flux Paste: LD<sub>50</sub> Oral: > 5 gm/kg (rat)

(Tested by Rosner-Hixson Laboratories; August 30, 1962)

**Chronic Toxicity Data** 

Carcinogenicity: Normal use of this product will not result in exposure to any component that is considered

a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National

Toxicology Program).

Irritation: The product is essentially non-irritating to the eyes and skin. Application of the product to

areas of intact and abraded rabbit skin produced no signs of skin irritation (Rosner-Hixson

Laboratories; Aug 30, 1962).

Corrosivity: Not applicable
Sensitization: Not applicable
Neurological Effects: Not available
Genetic Effects: Not available
Reproductive Effects: Not available
Developmental Effects: Not available
Target Organ Effects: Not available



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# **Section 12: Ecological Information**

Ecotoxicity: Not available

Persistence/Degradability: Not available

Bioaccumulation/Accumulation: Product is not readily biodegradeable.

Mobility: Not available

#### Section 13: Disposal Considerations

Waste Disposal Method: Do NOT discard into any sewers, on the ground or into any body of water. Store material for

disposal as indicated in Section 7 Handling and Storage.

The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, the supplier does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way

connected with the handling, storage, use or disposal of this product.

**USA:** Dispose of in accordance with local, state and federal laws and regulations.

**Canada:** Dispose of in accordance with local, provincial and federal laws and regulations.

EU: Waste must be disposed of in accordance with relevant EU Directives and national, regional and

local environmental control regulations.

#### Section 14: Transport Information:

U.S. Hazardous Materials Regulation (DOT 49CFR): Not regulated
Canadian Transportation of Dangerous Goods (TDG): Not regulated
ADR/RID: Not regulated
IMDG: Not regulated
Marine Pollutants: Not applicable
ICAO/IATA: Not regulated

#### Section 15: Regulatory Information

USA

TSCA Status: All ingredients in the product are listed on the TSCA inventory.

**SARA Title III** 

Sec. 302/304: None

Sec: 311/312: Not applicable Sec. 313: Not applicable CERCLA RQ: Not applicable

California Prop 65: This product is not known to contain chemicals known to the State of California to cause cancer

or reproductive harm.

State Right-to-Know Ammonium chloride can be found on the following state right to know lists: California, New

**Lists:** Jersey, Pennsylvania, Minnesota, Massachusetts.

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the MSDS contains all the information required by the Controlled Products

Regulations.

WHMIS Classification: Not controlled

**DSL:** All component substances are listed on Canada's Domestic Substances List (DSL).



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#### Regulatory Information, continued Section 15:

**EU Classification for the** Substance/Preparation

> Symbol: This product is not classified as dangerous according to Directive 1999/45/EC and its

amendments.

**Safety Phrases:** S1/2: Keep locked up and out of the reach of children.

#### Section 16: **Other Information**

**Full Text of R-phrases** R22: Harmful if swallowed appearing in Section 3: R36: Irritating to eyes

**Preparation Information:** 

**Revision Date:** May 26, 2011

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