

Material Safety Data Sheet

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MSDS Number: SP-30 Date Prepared: 31-Aug-01

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identifier As Used On Label: SP-30 SOLDERING PASTE FLUX

Product Use: Soldering flux paste for general applications, especially plumbing and sheet metal.

Manufacturer's Name and Address Supplier's Name and Address (if different from manufacturer)

KESTER SOLDER
DIVISION OF LITTON SYSTEMS, INC.
515 E. TOUHY AVENUE
DES PLAINES, IL 60018 USA

Telephone Number For Information: (847) 297-1600

CHEMTREC 24-Hour Emergency Telephone Number: (800) 424-9300

NA = Not Applicable NE = Not Established UN = Unknown

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS 1 % or greater CARCINOGENS 0.1 % or greater	C.A.S. Number	Weight Percent	OSHA PEL ppm	ACGIH TLV STEL ppm	LD 50 ingested g / Kg	LC 50 inhaled g / m³
Petrolatum	8009-03-8	65	NA	NA	NE	NE
Zinc Chloride	7646-85-7 *	24	1	2	NE	NE

NON-HAZARDOUS INGREDIENTS

			OSHA: Occupational Safety and Health Administration PEL: Permissible Exposure Limit ACGIH: American Conference of Government Industrial Hygienists TLV: Threshold Limit Values STEL: Short-Term Exposure Limit TWA: Time Weighted Average C.A.S. Chemical Abstract Service			

NOTES: * See Section 15 for U.S.A. Regulatory Information.

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SECTION 4 - FIRST AID MEASURES

Seek medical assistance for further treatment, observation and support if needed.

EYE CONTACT: Flush eyes with plenty of water and get medical attention.

SKIN CONTACT: Wash thoroughly with soap and water.

INHALATION: Remove person from exposure to fumes.

INGESTION: Do not induce vomiting. Drink three to four glasses of milk or water and get prompt medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: ☒ No ☐ Yes Conditions to avoid: None

Flash Point (T.O.C): 430 °F 221 °C Auto-Ignition Temperature: NE °F NE °C

Flammability Limits percent by volume in air: LEL: NA UEL: NA

Extinguishing Means: ☐ Water ☒ Carbon Dioxide ☒ Alcohol Foam ☒ Dry Chemical

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, acrid acid fumes in fires.

Explosion Sensitivity: Impact - None Identified Static Discharge Sensitivity: ☐ Yes ☒ No

Special Firefighting Procedures: Avoid breathing smoke. Wear self-contained breathing apparatus if this material is in the vicinity of a fire.

Unusual Fire and Explosion Hazards: Toxic and acrid fumes may be produced in a fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Spilled or Released:

Scoop up paste and deposit in appropriate containers. Remove residual with detergent water.

SECTION 7 - HANDLING AND STORAGE

Storage Precautions: Keep containers sealed when not in use.

Handling Precautions: Keep containers sealed when not in use.

Personal Precautions: Avoid contact with eyes and skin. Avoid breathing smoke / fumes generated during soldering.

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SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Causes skin and eye irritation. Fumes during soldering may cause respiratory system irritation or damage.

ECC (Europe) DANGEROUS SUBSTANCES
HAZARD DESIGNATION:

None

R-PHRASES (Risks to Humans or the Environment):
R 21/22 - Harmful in contact with skin and if swallowed.

R 34 - Causes burns.

R 41 - Risk of serious damage to eyes.

PRIMARY EXPOSURE:

Contact with skin and eyes when handling and to acrid fumes during soldering.

PRIMARY ROUTES OF ENTRY: ☒ Skin ☒ Eyes ☒ Inhalation ☒ Ingestion

TARGET ORGANS:

Eyes, skin, mucous membranes and respiratory system.

POTENTIAL HEALTH EFFECTS OF ACUTE (severe short-term) EXPOSURE:

INHALATION: Fumes during use may irritate mucous membranes and respiratory system.

EYE CONTACT: Irritation or burns.

SKIN CONTACT: Irritation or burns.

INGESTION: NE

SKIN ABSORPTION: None.

POTENTIAL HEALTH EFFECTS OF CHRONIC (prolonged) EXPOSURE:

Prolonged or repeated skin contact can result in burns. Fumes can cause respiratory irritation and damage.

Medical Conditions Generally Aggravated by Exposure:

Chemical hypersensitivity, asthma and other respiratory conditions, existing eye and skin disorders.

CARCINOGENICITY/ ☐ NTP ☐ OSHA ☐ IARC ☒ Not Listed

TERATOGENICITY / MUTAGENICITY: See Sections 11 and 15 for additional information.

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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

VENTILATION TO BE USED: Provide adequate exhaust ventilation (general and / or local) if necessary to meet exposure requirements. Local exhaust ventilation is preferred to minimize dispersion of smoke and fumes into the work area.

Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Protective Gloves: Neoprene or rubber gloves where necessary to avoid skin contact. Eye Protection: Safety glasses or goggles should be used.

Other Protective Clothing and Equipment: An impermeable apron is advised to avoid contact through clothing.

Hygienic Work Practices: Avoid contact with eyes or skin. Wash hands thoroughly after handling chemicals or solder containing lead before eating or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20 °C: Solid	Specific Gravity (water = 1 at 25 °C): 1.05
Boiling Point (760 mm Hg): NA °F NA °C	Melting Point: 120 °F 49 °C
Vapor Pressure (mm Hg at 20 °C): NA	Evaporation Rate (butyl acetate = 1): NA
Vapor Density (air = 1): NA	Percent Volatile (by volume): 0 %
Solubility in Water (% by weight): 35	Volatile Organic Compound (VOC): 0 g / Liter
pH: NE	Odor Threshold: NE
Freezing Point (760 mm Hg): NE °F NE °C	Coefficient of Water / Oil Distribution: NE
Appearance and Odor: Light amber colored paste with little or no odor.	

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: ☒ Stable ☐ Unstable Conditions to avoid: NE

Incompatibility (materials to avoid): None.

Hazardous Decomposition Products:
None.

HAZARDOUS POLYMERIZATION:

☐ May Occur
☒ Will Not Occur

Conditions to avoid: NE

SECTION 11 - TOXICOLOGICAL INFORMATION

EXPOSURE LIMITS: Not determined for the product. See Section 2 for ingredients

No data available.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

According to local regulations.

CAUTION: Empty containers may contain product residue. Observe all label precautions.

SECTION 14 - TRANSPORT INFORMATION

DOT (U.S.A.): Not Regulated

TDG (Canada): Not Regulated

SECTION 15 - REGULATORY INFORMATION

U.S.A.: All Chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.

California Proposition 65: None

Canada: WHMIS (Workplace Hazardous Materials Information System) CLASSIFICATION:

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Product Regulations (CPR) and the MSDS contains all the information required by the CPR.

D1B D2A E

Europe: European Council Directive 67/548/EEC

- DANGEROUS SUBSTANCES HAZARD CLASSIFICATION: None
- R-PHRASES (Risks to Humans or the Environment)
 - R 21/22 - Harmful in contact with skin and if swallowed.
 - R 34 - Causes burns.
 - R 41 - Risk of serious damage to eyes.
- S-PHRASES (Safety Precautions for Storing, Handling and Using the Product)
 - S 2 - Keep out of reach of children.
 - S 24/25 - Avoid contact with skin and eyes.
 - S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 - OTHER INFORMATION

NFPA Rating:	Health: 2	Flammability: 1	Reactivity: 0	Special:
HMIS Rating:	Health: 2	Flammability: 1	Reactivity: 0	Personal Protection: X

PREPARATION INFORMATION

Revision Summary: Change of format and new data in most sections.

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Telephone Number: (847) 297-1600

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