Material Safety Data Sheet

KESTER SOLDER	i Galot	, Du		1001	1 of 6		KESTER SOLDER Page: 2 of 6
MSDS Number: SP-30				age: ate Prepared:			MSDS Number: SP-30 Date Prepared: 31-Aug-01
SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION							SECTION 3 - HAZARDS IDENTIFICATION
Product Identifier As Used On Label: SP-30 SOL	DERING PASTE	FLUX					EMERGENCY OVERVIEW
Product Use: Soldering flux paste for general ap			and sheet 1	netal.			Causes skin and eye irritation. Fumes during soldering may cause respiratory system irritation or damage.
Manufacturer's Name and Address	S	upplier's Nar	ne and Add	ress (if differen	it from manu	lfacturer)	
KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC. 515 E. TOUHY AVENUE DES PLAINES, IL 60018 USA							ECC (Europe) DANGEROUS SUBSTANCES HAZARD DESIGNATION: R 21/22 - Harmful in contact with skin and if swallowed.
Telephone Number For Information: (847) 297-160	00 C	HEMTREC 24	Hour Emerge	ency Telephone N	lumber: (800)	424-9300	None R 34 - Causes burns.
NA = Not Applica	able $NE = Not B$	Established	UN = Ur	nknown			R 41 - Risk of serious damage to eyes.
SECTION 2 - COMPC	SITION / INFO	ORMATIC	N ON IN	IGREDIEN	rs		PRIMARY EXPOSURE:
HAZARDOUS INGREDIENTS 1 % or greater CARCINOGENS 0.1 % or greater	C.A.S. Number	Weight Percent	OSHA PEL	ACGIH TLV STEL	LD 50 ingested g / Kg	LC 50 inhaled g / m ³	Contact with skin and eyes when handling and to acrid fumes during soldering. PRIMARY ROUTES OF ENTRY: Skin Eyes Inhalation Ingestion
Petrolatum	8009-03-8	65	ppm NA	ppm NA	NE	NE	TARGET ORGANS:
Zinc Chloride	7646-85-7 *	24	1	2	NE	NE	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.
NON-HAZARDOUS INGREDIENTS						POTENTIAL HEALTH EFFECTS OF CHRONIC (prolonged) EXPOSURE: Prolonged or repeated skin contact can result in burns. Fumes can cause respiratory irritation and damage.	
NOTES: * See Section 15 for U.S.A. Regulatory	Information.						Medical Conditions Generally Aggravated by Exposure: Chemical hypersensitivity, asthma and other respiratory conditions, existing eye and skin disorders.
							CARCINOGENICITY/ O NTP O OSHA O IARC O Not Listed TERATOGENICITY / MUTAGENICITY: See Sections 11 and 15 for additional information.
				Form Num	ber: 1F-RD-G-	02-01B	
KESTER SOLDER			Pa	ge:	3 of 6		KESTER SOLDER Page: 4 of 6
MSDS Number: SP-30				te Prepared:			MSDS Number: SP-30 Date Prepared: 31-Aug-01
SECTION 4 - FIRST AID MEASURES						SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION	
Seek medical assistance for further treatment, observation and support if needed. EYE CONTACT: Flush eyes with plenty of water and get medical attention.						VENTILATION Provide adequate exhaust ventilation (general and / or local) if necessary to meet exposure requirements. TO BE USED: Local exhaust ventilation is preferred to minimize dispersion of smoke and fumes into the work area.	
SKIN CONTACT: Wash thoroughly with soap and water.						Respiratory Protection: When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirato or self-contained breathing apparatus should be worn.	
INHALATION: Remove person from exposure to fumes.						Protective Gloves: Neoprene or rubber gloves where necessary to avoid skin contact. Eye Protection: Safety glasses or goggles should be used	
INGESTION: Do not induce vomiting. Drin	k three to four gla	sses of milk	or water an	d get prompt n	nedical atten	tion.	Other Protective Clothing and Equipment: An impermeable apron is advised to avoid contact through clothing.
SECTION	5 - FIRE FIGH	ITING ME	ASURE	S			Hygienic Work Practices: Avoid contact with eyes or skin. Wash hands thoroughly after handling chemicals or solder containing lead before eating or smoking.
Flammability: No Yes 	Conditions to avoi	id: None					SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
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						Physical State at 20 °C: Solid Specific Gravity (water = 1 at 25 °C): 1.05	
Extinguishing Means: O Water O Carbon Dioxide O Alcohol Foam O Dry Chemical						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	
Hazardous Combustion Products: Carbon monoxide, carbon dioxide, acrid acid fumes in fires.						Vapor Density (air = 1): NA Percent Volatile (by volume): 0 %	
Explosion Sensitivity: Impact - None Identifi	ed Sta	atic Discharg	e Sensitivity	y: O	Yes	No	Solubility in Water (% by weight): 35 Volatile Organic Compound (VOC): 0 g / Liter pH: NE Odor Threshold: NE
Special Firefighting Procedures: Avoid breathing smoke. Wear self-contained breathing apparatus if this material is in the vicinity of a fire.						Freezing Point (760 mm Hg): NE °F NE °C Coefficient of Water / Oil Distribution: NE	
Unusual Fire and Explosion Hazards: Toxic and a	acrid fumes may be	e produced ii	a fire.				Appearance and Odor: Light amber colored paste with little or no odor.

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.

None.

Conditions to avoid: NE

SECTION 10 - STABILITY AND REACTIVITY

Will Not Occur

Incompatibility (materials to avoid): None. Hazardous Decomposition Products:

ESTER SOLDER	Page:	5 of 6	KESTER SO	LDER					Page:	6 c	of 6			
ISDS Number: SP-30	Date Prepared:	31-Aug-01	MSDS Numb	er: SP-30					Date Pro	epared: 31-	-Aug-01			
SECTION 11 - TOX	SECTION 15 - REGULATORY INFORMATION													
XPOSURE LIMITS: Not determined for the product No data available.	U.S.A.: All Chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory.													
				California Propo	osition 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									
SECTION 12 - EC	COLOGICAL INFORMATION]	_										
No data available.			Europe:	European Co										
							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 eves.							
						6	2							
SECTION 13 - DIS	SPOSAL CONSIDERATIONS]	S 2 - S 24	- Keep ou /25 - Avo	afety Precautions fo t of reach of childre oid contact with skir of contact with eye	en. 1 and eyes.	-	-		edical advice			
/aste Disposal Methods: According to local regulations.						SECTION 16	- OTHER IN	FORMA	TION					
			NFPA R	ating: Healt	n: 2	Flammability:	1 F	Reactivity:	0	Special:				
AUTION: Empty containers may contain product resi	idue. Observe all label precautions.		HMIS RA	ating: Health	h: 2 ATION	Flammability:	1 F	Reactivity:	0	Personal Pro	otection: X			
SECTION 14 - TF		Revisio	Revision Summary: Change of format and new dat					tions.						
DT (U.S.A.): Not Regulated				By: D. Bernier			Date Prep	-	31-Aug-01					
DG (Canada): Not Regulated			Telephone	Number: (847)	297-1600		Supersed	ies:]	19-Jun-00					
			Kester Solder this data for an other material aware of the h	extends no warranti y purchaser's use. or in any process. A azards involved and	es, makes r The Data o Il chemical the necess	data considered accura no representations and n this Material Safety D products should be use ity for reasonable care Sheet as a source for H	assumes no respor lata Sheet relates o ed only by or under in handling. Hazan	nsibility as to only to this pro the direction	the accuracy, co oduct and does r of technically qu	ompleteness or not relate to use ualified personn	suitability of with any hel who are			

Form Number: 1F-RD-G-02-01B

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