SAFETY DATA SHEET

FCT Companies

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: NL930PTM
PRODUCT TRADE NAME: NL930PTM
COMMON NAMES/SYNONYMS: NL930PTM SAC305 Solder Paste
CATEGORY: PasteLF
RECOMMENDED USE: SAC305 Solder Paste, For industrial use only, refer to label and technical data sheet or call number below

MANUFACTURER

FCT
1309 North 17th Ave., Greeley, CO 80631, Phone 970-346-8002

24 HR. EMERGENCY TELEPHONE NUMBERS

800-535-5053

Emergency Contact: INFO TRAC
E-Mail: customerservice@floridacirtech.com
Emergency Phone: 800-535-5053
Alternate Emergency Phone: 800-686-6504

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Grey paste

IMMEDIATE CONCERNS: No applicable data available

POTENTIAL HEALTH EFFECTS

EYES: Causes serious eye irritation

SKIN: Causes skin irritation.

INGESTION: May cause nausea and vomitting. May cause irritation to the mouth, throat and stomach.

INHALATION: May cause physical discomfort to the respiratory tract.

UNCLASSIFIED HAZARDS: Use good industrial practices when handling. Avoid eye, skin, and clothing contact.

SIGNAL WORD: Danger

Potential Carcinogens as listed by OSHA, IARC, or NTP: NONE

OSHA HCS Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Pictogram:



Hazard Statement(s)

Code	Statement	GHS Chapter	Category
H315	Causes skin irritation	Skin corrosion/irritation (chapter 3.2)	2
H317	May cause an allergic skin reaction	Sensitization, skin (chapter 3.4)	1
H319	Causes serious eye irritation	Serious eye damage/eye irritation (chapter 3.3)	2A
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	Sensitization, respiratory (chapter 3.4)	1

H402	Harmful to aquatic life	Hazardous to the aquatic environment, acute toxicity (chapter 4.1)	3

Precautionary Statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+ P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+ P352	IF ON SKIN: Wash with plenty of soap and water.
P305+ P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Names	CAS	Weight %age
Tin	Tin	7440-31-5	80.00 % - -90.00 %
Silver	Silver	7440-22-4	0.00 % - 2.00 %
Hydrogenated rosin	Hydrogenated rosin	65997-06-0	0.00 % - 5.00 %
Organic Acid	Organic Acid	-	0.00 % - 2.00 %
Ethoxylated Amines	Ethoxylated Amines	-	0.00 % - 2.00 %
Copper	Copper	7440-50-8	0.00 % - 1.00 %

4. FIRST AID MEASURES

COMMON SYMPTOMS OF OVEREXPOSURE: No Applicable data available

EYES: Immediately flush with water for at least 15 minutes or until the chemical is removed.

SKIN: Wash off immediately with soap and water. If clothing is contaminated, remove and launder before reuse.

INGESTION: If conscious, rinse mouth with water. Seek medical advice on whether to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

INHALATION: Move to fresh air. Get medical attention if symptoms occur.

NOTES TO PHYSICIAN: Follow usual and customary procedures

ADDITIONAL INFORMATION: No Applicable data available

COMMENTS: No Applicable data available

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: No applicable data available

FLAMMABLE LIMITS: LEL : No applicable data available UEL: No applicable data available

GENERAL HAZARD: As with any chemical fire, combustion products of unknown toxicity are always possible.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam or water spray.

FIRE FIGHTING EQUIPMENT: Vapors and fumes may be irritating and toxic. Firefighters should wear selfNo applicable data availablecontained breathing apparatus and full fireNo applicable data availablefighting turnout gear.

SENSITIVE TO STATIC DISCHARGE: No applicable data available

COMMENTS: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spilled liquid in a suitable material. Sweep or vacuum material into disposal containers.

LARGE SPILL: Absorb spilled liquid in a suitable material. Sweep or vacuum material into disposal containers.

EMERGENCY PROCEDURES: For hazardous waste regulations call 800-424-9346, the RCRA Hotline. Personal precautions, protective equipment and emergency procedures: Evacuate area. Keep upwind of spill. Refer to section 7, Handling, for additional precautionary measures. Only trained and properly protected personnel must be involved in clean-up operations. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and personal protection.

GENERAL PROCEDURES: If possible, stop further leakage of the material. Contain spilled material by diking with non-flammable diking materials.

RELEASE NOTES: Collect as much as possible in a clean container for reuse (if not contaminated) or disposal (if contamintated). Prevent from entering into soil, ditches, sewers, waterways and/or ground water. See section 12 Ecological information.

SPECIAL PROTECTIVE EQUIPMENT: Isolate area. Use appropriate safety equipment. For additional information, refer to section 8, Exposure Controls and Personal Protection.

COMMENTS: See also section 13 for disposal information.

7. HANDLING AND STORAGE

HANDLING: Use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale mist or vapors. Do not taste or swallow. Use only with adequate ventilation.

STORAGE: Keep container closed when not in use. Avoid elevated and freezing temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL	OSHA STEL	ACGIH TWA	ACGIH STEL
Tin	2 mg/m3	NE	2 mg/m3	NE
Silver	0.01 ppm	NE	0.1 ppm	NE
Hydrogenated rosin	NE	NE	NE	NE
Organic Acid				
Ethoxylated Amines				
Copper				

ENGINEERING CONTROLS: Work in well ventilated areas. Do not breathe vapors or mist. Ensure that existing ventilation is sufficient to prevent the circulation and/or accumulation of vapors in the air.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.

SKIN: Wear nitrile or latex gloves. Wear protective clothing.

RESPIRATORY: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

WORK HYGIENIC PRACTICES: Discard contaminated gloves after use. Have eye-wash facilities in the immediate vicinity. Work in adequately ventilated area. Do not breathe vapors or mist. Minimize any contact with any chemical.

COMMENTS: Eye wash station and safety shower should be available in immediate work area. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment, in accordance with the OSHA PPE Standard (29 CFR 1910.132), be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: PASTE

Appearance Color: Grey

Odor: None to slight
Odor Threshold: Not Determined
pH-value @ 68 °F: N/A
Melting point: Not Determined
Boiling Point: >700 F
Flash Point: Non Flammable
Flammability: no data available
Ignition temperature: no data available
Auto Igniting: no data available
Danger of explosion: no data available
Explosion Lower Limit: Not Established
Explosion Upper Limit: Not Established
Vapor pressure @ 68 °F: Not Determined
Relative Density: >5
Vapor Density: Not Determined
Evaporation Rate: N/A
Solubility in Water: Insoluble
Partition coefficient: no data available
Dynamic viscosity: no data available
Kinematic viscosity: no data available
Organic Content %age: no data available
Water %age: no data available
Solids Content %age: no data available
Other Informartion: no data available

10. STABILITY AND REACTIVITY

STABILITY: Stable
REACTIVITY: See sub-sections below.
POLYMERIZATION: Hazardous polymerization is not expected to occur under normal temperatures and pressures.
CONDITIONS TO AVOID: None known.
POSSIBILITY OF HAZARDOUS REACTIONS: None expected.
INCOMPATIBLE MATERIALS: None known
HAZARDOUS DECOMPOSITION MATERIALS: Not Determined

11. TOXICOLOGICAL INFORMATION

SKIN: Skin Corrosion/Irritation: Irritating., Skin Acute Toxicity: Not Determined
EYES: Smoke during soldering can cause eye irritation.
INHALATION: Smoke during soldering can cause respiratory irritation.
INGESTION: Not Determined
CARCINOGENICITY
IARC: None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
NTP: None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
OSHA: None of the components of this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
DERMAL TOXICITY: Not Determined
MUTAGENICITY: Not Determined
SENSITIZATION: Not Determined

TERATOGENICITY: Not Determined

REPRODUCTIVE EFFECTS: Not Determined

TARGET ORGAN EFFECTS: Not Determined

ADDITIONAL INFORMATION: no additional information.

12. ENVIRONMENTAL INFORMATION

PRODUCT	TEST	DURATION	ORGANISM TYPE	TEST RESULTS
same as sds name	-	No applicable data available	No applicable data available	No applicable data available

ECOTOXICITY: no applicable data available

BIOACCUMULATION: Not determined

PERSISTENCE DEGRADABILITY: Not determined

MOBILITY: Not expected to be very mobile.

ENVIRONMENTAL DATA: no applicable data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

EMPTY CONTAINER: Empty Container Warning (Where applicable). Empty Containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty containers should be taken for recycling, recovery or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DISPOSAL INSTRUCTIONS: The generation of waste should be avoided or minimized wherever possible and should at all times comply with the requirements of evironmental protection and waste disposal legislation and any regional local authority requirements.

WASTE FROM RESIDUES / UNUSED PRODUCTS: For hazardous waste regulations call 800-424-9346, the RCRA Hotline.

CONTAMINATED PACKAGING: For hazardous waste regulations call 800-424-9346, the RCRA Hotline.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: NON D.O.T. REGULATED

TECHNICAL NAME: no applicable data available

PRIMARY HAZARD CLASS/DIVISION: NA

UN/NA NUMBER: NA

PACKING GROUP: NA

NAERG: N/A

LABEL: NA

EMS NO: Not Applicable

ADDITIONAL INFO: In Accordance with IATA: Not regulated for transport.

In Accordance with IMDG: Not regulated for transport.

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: On the inventory, or in compliance with the inventory

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) no applicable data available

CERCLA Hazardous Substance List (40 CFR 302.4): NO

Superfund amendments and reauthorization act of 1986 (SARA)

SARA 302 Extremely hazardous substance NO

SARA 304 Emergency release notification no applicable data available

SARA 311/312 Hazardous chemical no applicable data available

SARA 313 (TRI reporting) NO

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) no applicable data available

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):no applicable data available

US state regulations

US. California Proposition 65: NO

US. New Jersey Worker and Community Right-to-Know Act: no applicable data available

US. Massachusetts RTK - Substance List: no applicable data available

US. Pennsylvania RTK - Hazardous Substances: no applicable data available

US. Rhode Island RTK: no applicable data available

Inventory Status:

Europe REACH: On the inventory, or in compliance with the inventory

USA TSCA: On the inventory, or in compliance with the inventory

Canada DSL: On the inventory, or in compliance with the inventory

Australia AICS: On the inventory, or in compliance with the inventory

New Zealand NZIOC: On the inventory, or in compliance with the inventory

Japan ENCS: On the inventory, or in compliance with the inventory

Korea KECI: On the inventory, or in compliance with the inventory

Philippines PICCS: On the inventory, or in compliance with the inventory

China IECSC: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

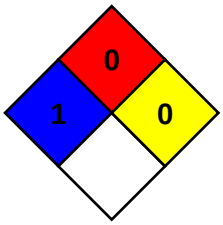
TITLE: EHS Management

PREPARED BY: FCT EHS and Compliance Dept.

HEALTH: 1

FIRE: 0

REACTIVITY: 0



MANUFACTURER SUPPLEMENTAL NOTES: no applicable data available

MANUFACTURER DISCLAIMER: The information contained herein is based on data believed to be accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated. It is the user's

responsibility for determining whether the product is suitable for its intended conditions of use.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect
EC	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Ac
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition,Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		