SAFETY DATA SHEET

Finished Product



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Paste Flux 26-331770, 26-331930

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

DECITOR I. I RODUCT MED COMMINE IDENTIFICATION	
Brand Name	26-331770, 26-331930
Product Description:	Petroleum Based Soldering Flux
Product Code	26-331770, 26-331930
Marketer Contact Information:	NTE Electronics, Inc.
	44 Farrand Street
	Bloomfield, NJ 07003
	973-748-5089
Emergency Phone:	CHEMTREC 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Physical Hazards	Not classified	
Health Hazards	Acute Toxicity, Oral	Category 4
	Skin Corrosion/Irritation	Category 1B
	Serious Eye Damage/Eye Irritation	Category 1
	Specific Target Organ Toxicity, Single Exposure	Category 3 respiratory tract irritation
Environmental Hazards	Hazardous to the aquatic environment, acute hazard Category 1	
	Hazardous to the aquatic environment, long-term hazard Category 1	
OSHA/HCS Status	Not classified	

GHS Label Elements

Hazard Pictograms	
Single Word	Danger
Hazard Statements	Harmful if swallowed. Causes severe skin burns and eye damage.
	May cause respiratory irritation. Very toxic to aquatic life with long
	lasting effects.

Precautionary Statements

Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well ventilated area. Avoid release to the environment.
Response	Immediately call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. DO NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present an easy to do. Continue rinsing.

SECTION 2. HAZARDS IDENTIFICATION (Cont'd)

Precautionary Statements (Cont'd)

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Storage	Store in a well-ventilated place. Keep container tightly closed. Store
	locked up.
Disposal	Dispose of contents/container in accordance with all
	local/regional/national/international regulations.

Hazard(s) Not Otherwise Classified (HNOC)

Conclusion/Summary	Contact with eyes may cause irritation.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Name	CAS Number	%
Petrolatum	8009-03-8	70 - 75
Zinc Chloride	7646-85-7	25 - 30

Composition Comments

Conclusion/Summary	All concentrations are in percent by weight unless ingredient is a
	gas. Gas concentrations are in percent by volume

SECTION 4. FIRST-AID MEASURES

Ingestion	If swallowed, rinse mouth with water (only if the person is
	conscious). Never give anything by mouth to a victim who is
	unconscious or is having convulsions. If vomiting occurs naturally,
	have victim lean forward to reduce risk of aspiration. Do not use
	mouth-to-mouth method if victim ingested the substance. Induce
	artificial respiration with the aid of a pocket mask equipped with a
	one-way valve or other proper respiratory medical device. Get
	medical attention immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use
	mouth-to-mouth method if victim inhaled the substance. Induce
	artificial respiration with the aid of a pocket mask equipped with a
	one-way valve or other proper respiratory medical device. Get
	medical attention immediately.
Skin Contact	Remove and isolate contaminated clothing and shoes. Immediately
	flush with plenty of water for at least 15 minutes. Get medical
	attention immediately. Wash clothing separately before reuse.
Eye Contact	Immediately flush eyes with plenty of water for 15 minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. Get
	medical attention immediately.

Most Important Symptoms/Effects, Acute and Delayed

Indication of Immediate Medical Attention and	Treat symptomatically.
Special Treatment Needed	
General Information	Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical, foam, carbon dioxide.
Unsuitable Extinguishing Media:	None known.
Specific Hazards Arising from the Chemical:	Fire may produce irritating, corrosive and/or toxic gases.
Special Protective Equipment and Precautions	Firefighters should wear full protective clothing including self-
for Firefighters	contained breathing apparatus.
Fire Fighting Equipment/Instructions	Move containers from fire area if you can do it without risk.
Specific Methods	Use standard firefighting procedures and consider the hazards of
	other involved materials.
General Fire Hazards	Will release small amounts of HCL upon decomposition.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spills cannot be contained.
Methods and materials for Containment and Cleaning Up	Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Neutralize with soda ash or sodium bicarbonate. Dilute with plenty of water. Dispose of in accordance with EPA regulations.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear appropriate personal protective equipment (See Section 8).
	Use only with adequate ventilation. Do not breathe fumes and dusts.
	Avoid contact with eyes, skin, and clothing. Wash thoroughly after
	handling. Observe good industrial hygiene practices.
Conditions for Safe Storage, Including any	Store in plastic containers in cool area away from heat. Store away
Incompatibilities	from incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Zinc Chloride (CAS 7646-85-7)	PEL	1mg/m ³	Fume

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Zinc Chloride (CAS 7646-85-7)	STEL	2mg/m ³	Fume
	TWA	1mg/m ³	Fume

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Zinc Chloride (CAS 7646-85-7)	STEL	2mg/m ³	Fume
	TWA	1mg/m ³	Fume

Biological Limit Values	No biological exposure limits noted for ingredient(s)		
Exposure Guidelines	Use personal protective equipment are required. Keep working		
	clothes separately.		
Appropriate Engineering Controls	Good general ventilation (typically 10 air changer per hour) should		
	be used. Ventilation rates should be matched to conditions. If		
	applicable, use process enclosures, local exhaust ventilation, or other		
	engineering controls to maintain airborne levels below		
	recommended exposure limits. If exposure limits have not been		
	established, maintain airborne levels to an acceptable level. An eye		
	wash and safety shower must be available in the immediate work		
	area.		

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Wear approved safety glasses or goggles.	
Skin Protection	Hand Protection: Wear protective gloves. Other: Wear suitable	
	protective equipment.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont'd) CONTROL PARAMETERS (Cont'd)

Individual Protection Measures, such as Personal Protective Equipment (Cont'd)

Respiratory Protection	Use a respirator when local exhaust or ventilation is not adequate to	
	keep exposures below the OEL. In a confined space a supplied	
	respirator may be required. Selection and use of respiratory	
	protective equipment should be in accordance with OSHA General	
	Industry Standard 29 CFR 1910.134; or in Canada with CSA	
	Standard Z94.4.	
Thermal Hazards	Wear appropriate thermal protective clothing, when necessary.	

General Hygiene Considerations

Conclusion/Summary	Always observe good personal hygiene measures, such as washing
	after handling the material and before eating, drinking, and/or
	smoking. Routinely wash work clothing and protective equipment to
	remove contaminants

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 7.1 III SICAL AND CHEMICAL I ROI EXTLES			
Reddish Brown Paste			
Semi-Solid			
Paste			
Reddish Brown			
Slight Petroleum Odor.			
Not Available.			
Not Available.			
+100°F (+37.78°C)			
Not Available.			
+360.0° to +430.0°F (+182.2° to +221.1°C)			
Not Applicable.			
Not Available.			
Not Applicable.			
0.9			
Not Soluble in Water			
Not Available.			

SECTION 10. STABILITY AND REACTIVITY

SECTION 10: STABLETT AND REACTIVE	i I	
Reactivity	The product is non-reactive under normal conditions of use, storage	
	and transport.	
Chemical Stability	Material is stable under normal conditions.	
Possibility of Hazardous Reactions	Hazardous polymerization does not exist.	
Conditions to Avoid	Avoid contact with incompatible materials.	
Incompatible Materials	Strong oxidizing agents. Chlorine. Turpentine. Potassium.	
_	Cyanides. Sulfides. Powdered Zinc	
Hazardous Decomposition Products	Chlorine. Hydrogen Chloride. Carbon Monoxide.	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

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Inhalation	Corrosive to the respiratory tract.
Skin Contact	Causes skin burns.
Eye Contact	Causes serious eye damage.
Ingestion	Harmful if swallowed. Ingestion may produce burns to the lips, oral
	cavity, upper airway, esophagus and possibly the digestive tract.

Conclusion/Summary

SECTION 11. TOXICOLOGI Symptoms Related to the Phys		
Conclusion/Summary	sical, Chemical and Toxicon	Causes skin and eye burns.
Information on Toxicological	<u>Effects</u>	
Acute Toxicity		Causes burns. Harmful if swallowed. Exposure to high levels of zinc chloride fume may cause pulmonary edema.
Components	Species	Test Results
Zinc Chloride (CAS 7646-85-7)		
Acute Oral/		
LD50	Mouse	350mg/kg
2200	1120400	
Skin Corrosion/Irritation		
Conclusion/Summary		Causes skin burns.
Serious Eye damage/Eye Irrita	ation	
Conclusion/Summary	ation_	Causes serious eye damage.
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Respiratory or Skin Sensitizat	<u>ion</u>	
Respiratory Sensitization		Not classified.
Skin Sensitization		Not classified.
Germ Cell Mutagenicity		
Conclusion/Summary		No data available to indicate product or any components
3		present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity Conclusion/Summary		This product is not considered to be a carcinogen by IARC,
Conclusion/Summary		ACGIH, NTP, or OSHA.
OSHA Specifically Regulated	Substances (29 CFR 1910.1	
Not listed.		
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Reproductive Toxicity Conclusion/Summary		Not classified.
Conclusion/Summary		Two classified.
Specific Target Organ Toxicity	<u>y</u>	
Single Exposure		May cause respiratory tract irritation.
Repeated Exposure		Not classified.
Aspiration Hazard		
Conclusion/Summary		Not likely, due to the form of the product.
Contracting with the same of		
SECTION 12. ECOLOGICAI Ecotoxicity	LINFORMATION	
Conclusion/Summary		Very toxic to aquatic life with long lasting effects.
	G ·	77. 4 D. 14
Components Zinc Chloride (CAS 7646-85-7)	Species	Test Results
Aquatic		
Crustacea EC50	American or Virginia Oyster	0.1511 - 0.2782 mg/l, 48 hours
Fish LC50	(Crassostrea Virginica) Rainbow Trout, Donaldson	Trout 0.101 – 0.197mg/l, 96 hours
1718H LC3U	(Oncorthynchus Mykiss)	0.101 - 0.17/111g/1, 50 110uls
Persistence and Degradability		

No data is available on the degradability of this product.

SECTION 12. ECOLOGICAL INFORMATION (Cont'd)

Bioaccumulative Potential

Conclusion/Summary	No data available.
M-1-114 1 C-11	

Mobility in Soil

Conclusion/Summary	No data available.

Other Adverse Effects

Conclusion/Summary	An environmental hazard cannot be excluded in the event	
	of unprofessional handling or disposal.	

SECTION 13. DISPOSAL CONSIDERATIONS

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Disposal Instructions	Dispose waste and residues in accordance with applicable	
	federal, state, and local regulations.	
Local Disposal Regulations	Dispose of in accordance with local regulations.	
Hazardous Waste Code	D002: Waste Corrosive material [pH ≤2 or ≥12.5, or	
	corrosive to steel]	
Waste from Residues/Unused Products	Dispose in accordance with all applicable regulations.	
Contaminated Packaging	Since emptied containers may retain product residue,	
	follow label warnings even after container is emptied.	

SECTION 14. TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN Number	UN1760	UN1760	UN1760
UN Proper	Corrosive liquids, n.o.s	Corrosive liquids, n.o.s	Corrosive liquids, n.o.s
Shipping Name	(Zinc Chloride RQ = 3953 LBS)	(Zinc Chloride)	(Zinc Chloride)
Transport Hazard	8	8	8
Class(es)	CORROSIVE	CORROSIVE	CORROSIVE
Packing Group	III	III	III
Environmental	Marine Pollutant: Yes	Marine Pollutant: Yes	Yes
Hazards			
EmS	-	F-A, S-B	-
ERG Code	-	8L	8L
Special Provisions	IB3, T7, TP1, TP28	-	-
Packaging Exceptions	154	-	-
Packaging Non-Bulk	203	-	-
Packaging Bulk	241	-	-

Special Precautions for User	Read safety instructions, SDS and emergency procedures
	before handling.

Transport in Bulk According to Annex II of MARPOL	Not Available
73/78 and the IBC Code	

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)	Zinc Chloride (CAS 7646-85-7) LISTED

SECTION 15. REGULATORY INFORMATION (Cont'd)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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Hazard Categories	Immediate Hazard – Yes
	Delayed Hazard – No
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance

Classification	Classification	Not Listed
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SARA 311/312 Hazardous Chemical

Classification	Yes	

SARA 313 (TRI Reporting)

Chemical Name	CAS Number	% by wt.
Zinc Chloride	7646-85-7	25 - 30

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	No regulated.

US State Regulations

US. Massachusetts RTK – Substance List	Zinc Chloride (CAS 7646-85-7)
US. New Jersey Worker and Community Right-to-Know Act	Zinc Chloride (CAS 7646-85-7)
US. Pennsylvania Worker and Community Right-to-Know Law	Zinc Chloride (CAS 7646-85-7)
US. Rhode Island RTK	Zinc Chloride (CAS 7646-85-7)
US. California Proposition 65	Not listed.

International Inventories

Country(s) or Region	Inventory Name	On Inventory (Yes/No) *
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*} A "Yes" indicates this product complies with he inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

Health	3	
Flammability	1	
Physical Hazards	0	

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the national Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Further Information

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