

Durable Component Tech

Aluminum Solder Paste

Manufacturer MSDS Number:



SECTION 1 : Chemical Product and Company Identification

MSDS Name: Aluminum Solder Paste

Manufacturer Name: FTZ Industries

Address:

515 PALMETTO DRIVE
SIMPSONVILLE, SC 29681

Business Phone: (864) 963-5000

For information in North America, call: (864) 963-5000

For emergencies in the US, call CHEMTREC: 800-424-9300

Manufacturer MSDS Revision Date:

March 2004
SUPERSEDES: Initial issue

NFPA

Health: 2

Flammability: 1

Reactivity: 1

Other:

HMIS

Health Hazard: 2

Fire Hazard: 1

Reactivity: 1

Personal Protection:

Distributor Name: Durable Component Tech

Distributor Address:

PO Box 15118
St. Louis, MO 63110

Distributor Telephone: 800-285-7965

General Use:

PRODUCT USE: ELECTRICAL INSULATION TUBING

HAZARD RATING:

0 = LEAST
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

WHMIS STATUS: NOT CONTROLLED

NUMBER (PIN): Not Applicable

Product Codes:

**SECTION 2 - Hazardous Ingredients/Identity Information**

Chemical Name	CAS#	Percent	
TIN	7440-31-5	< 80%	

OSHA PEL TWA: 2 mg (Sn)/mg3

ACGIH TLV TWA: 2 mg/m3

Other Exposure Guidelines:

STEL: 4 mg/m3

Chemical Name	CAS#	Percent	
SILVER	7440-22-4	< 5%	

OSHA PEL TWA: 10 ug/m3

ACGIH TLV TWA: 100 ug/m3

NOTE: SILVER IS A CERCLA HAZARDOUS SUBSTANCE RELEASES OR WHICH ARE REPORTABLE UNDER CERCLA AND SARA TITLE III, SECTION 304 WHEN IN EXCESS OR 1000 POUNDS OF SILVER (20,000 POUNDS OF THIS PRODUCT).

Chemical Name	CAS#	Percent	
BISMUTH	7440-69-9	< 5%	

OSHA PEL TWA: NOT ESTABLISHED

ACGIH TLV TWA: NOT ESTABLISHED

Chemical Name	CAS#	Percent	
PETROLATUM	8009-03-8	< 29%	

OSHA PEL TWA: NOT ESTABLISHED

ACGIH TLV TWA: NOT ESTABLISHED

Chemical Name	CAS#	Percent	
GLYCERINE	56-81-5	< 6%	

OSHA PEL TWA: NOT ESTABLISHED

ACGIH TLV TWA: NOT ESTABLISHED

Other Exposure Guidelines:

STEL: (MISTS)

Chemical Name	CAS#	Percent	
ZINC AMMONIA CHLORIDE	7646-85-7	< 2%	

OSHA PEL TWA: 1 mg FUME/m3

ACGIH TLV TWA: 1 mg/m3

Other Exposure Guidelines:

STEL: 2 mg/m3

Chemical Name	CAS#	Percent	
AMMONIUM FLUROBORATE	13826-83-0	< 9%	

OSHA PEL TWA: 2.5 mg. (F)/m3

ACGIH TLV TWA: 2.5 mg F/m3

Chemical Name	CAS#	Percent	
AMINOETHYLETHAN OLAMINE	111-41-1	< 9%	

OSHA PEL TWA: NOT ESTABLISHED

ACGIH TLV TWA: NOT ESTABLISHED

Chemical Name	CAS#	Percent	
ZINC OXIDE (AS FUME	1314-13-2	< 7%	

OSHA PEL TWA: 5 mg/m³

ACGIH TLV TWA: 5 mg/m³



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SECTION 3 : Physical And Chemical Characteristics

Physical State/Appearance:

PASTE

Color:

GRAY

Odor:

BLAND ODOR

Vapor Pressure:

(mm Hg): Nil

Vapor Density:

(Air = 1): Not Applicable

Boiling Point:

Not Applicable

Melting Point:

132 deg F

Solubility:

In Water: < 2%

Specific Gravity:

(H₂O = 1): ~2.66

Evaporation Point:

(Butyl Acetate = 1): Nil

FlashPoint:

400 deg F

Upper Flammable Explosive Limit:

Unknown

Lower Flammable Explosive Limit:

Unknown



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SECTION 4 : Fire And Explosion Hazards

Flash Point:

400 deg F

Upper Flammable or Explosive Limit: Unknown

Lower Flammable or Explosive Limit: Unknown

Extinguishing Media:

DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE.

Fire Fighting Instructions:

PRODUCT EXPOSED TO HIGH TEMPERATURES MAY PRODUCE TOXIC FUMES. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

Unusual Fire Hazards:

HEATED CONTAINERS MAY RUPTURE VIOLENTLY, COOL WITH A WATER MIST TO PREVENT OVERHEATING.



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SECTION 5 : Health Hazards

Applies to all ingredients:

Route of Exposure:

Inhalation, Skin, Ingestion, Eyes

Potential Health Effects:

Eye Contact:

May be irritating.

Skin Contact:

May be irritating.

Inhalation:

Mists are extremely irritating.

Ingestion:

May result in irritation to gastrointestinal tract.

Carcinogenicity:

OSHA Designation: Regulated: NO

NTP Designation: Ingredients not on list.

IARC Designation: Monographs: Ingredients not on list.

Signs/Symptoms:

Inhalation: Irritation of respiratory system with possible difficulty in breathing.

Ingestion: Small amounts may cause gastric distress, diarrhea and vomiting.

Skin Contact: Irritation.

Eye Contact: Irritation, possible severe.

Aggravation of Pre-Existing Conditions:

Unknown

PETROLATUM:

Potential Health Effects:

Acute: On rare occasions, after prolonged or repeated exposure to mists of Petrolatum, some individuals may experience shortness of breath and cough.

Chronic Health Effects:

On rare occasions, after prolonged or repeated exposure to mists of Petrolatum, some individuals may experience shortness of breath and cough.



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SECTION 6 : Emergency And First Aid Procedures

Eye Contact:

Immediately flush eyes in clear running water for at least 15 minutes lifting upper and lower lids periodically. GET MEDICAL ATTENTION IMMEDIATELY.

Skin Contact:

Flush skin with plenty of water for at least 15 minutes.

Inhalation:

Remove victim to fresh air. If breathing has stopped, administer artificial respiration. If breathing does not return to normal within a few minutes, GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.



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SECTION 7 : Reactivity Data

Chemical Stability:

STABLE

Incompatibilities with Other Materials:

(Materials to Avoid): Avoid Flames. Do not mix with acids, oxidizing agents, sulfur, or chlorine.

Hazardous Polymerization:

Will Not Occur.

Hazardous Decomposition Products:

Heat and carbon dioxide. Exposure to strong acids can produce toxic organic and inorganic tin and silver compounds. Acrolein.



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SECTION 8 : Precautions For Safe Handling

Spill Cleanup Measures:

Absorb on inert materials such as clay, vermiculite or sand. Place in sealable container for disposal as hazardous waste.

Other Precautions:

KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

Handling:

Empty Container Handling:

WARNING! Emptied container retains product residue. Observe all precautions even after container is emptied. Keep empty container closed tightly.

Storage:

STORE AWAY FROM SOURCES OF HEAT, SPARK, AND FLAME. DO NOT STORE WITH OR NEAR ACIDS OR OXIDIZING MATERIALS.

Hygiene Practices:

Wash product from clothes and skin. Use good housekeeping practices.

Biodegradation: Organic portion is biodegradable.

Waste Disposal:

Non-hazardous. NOTE: THIS PRODUCT CONTAINS MATERIALS WHICH ARE CERCLA HAZARDOUS WASTES. DISPOSE IN AN APPROVED HAZARDOUS WASTE SITE. LARGE SPILLS ARE REPORTABLE UNDER SARA TITLE III, SECTION 304.

Dispose of in an authorized waste facility in accordance with local, state, and federal regulations.



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SECTION 9 : Control Measures

Ventilation System:

LOCAL EXHAUST TO KEEP EXPOSURE BELOW TLV AND PEL VALUE.

Hand Protection Description:

Protective Gloves: Rubber or neoprene.

Eye/Face Protection:

Chemical goggles or face splash shield.

Protective Clothing/Body Protection:

Use chemical resistant apron to prevent excessive skin contact.

Respiratory Protection:

(Specify Type): FOR EXPOSURE BELOW TLV AND PEL VALUES (SEE SECTION 2) THE USE OF A PARTICLE MASK IS RECOMMENDED. FOR EXPOSURE ABOVE TLV AND PEL USE NIOSH/MSHA SA-CF (WITH EYE PROTECTION)/PAPRIE (WITH EYE PROTECTION). FOR ESCAPE USE HIEF/SCBAE.

Work/Hygienic Practices: Wash product from clothes and skin. Use good housekeeping practices.



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SECTION 10 : Other Information

Applies to All Ingredients:

TSCA 8(b): Inventory Status

Ingredients Listed

Section 302:

Reporting not required.

Section 304:

Section 304-Hazardous Releases: Reporting required for spills over 20,000 lbs.

CERCLA Hazardous Materials: Same as Section 304.

Section 312 Hazard Category:

Section 311-Community Right to Know (RTK): Reporting required for inventories above threshold planning quantity (TPQ)

Section 312-RTK Inventory Data: Reporting required for inventories above threshold planning quantity (TPQ)

Section 313 Toxic Release Form:

Emissions and Release: Reporting not required.

Regulatory Paragraph:

Regulatory Standards: Dot Title 49 Code of Federal Regulations 172.101 SARA Title III

Canada WHMIS:

WHMIS STATUS: NOT CONTROLLED

Permissible Exposure References:

Registry of Toxic Effects of Chemical Substances

Title 29 Code of Federal Regulations

National Toxicology Program (NTP) Report on Carcinogens

International Agency for Research on Cancer (IARC) Monographs

SILVER:

Section 304:

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HMS:

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Fire Hazard: 1 = SLIGHT

Reactivity: 1 = SLIGHT

NFPA:

Fire Hazard: 1 = SLIGHT

Health: 2 = MODERATE

Reactivity: 1 = SLIGHT

MSDS Revision Date:

March 2004

SUPERSEDES: Initial issue

MSDS Author:

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Disclaimer:

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