



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
97-150-88

Product Name: SILVER SOLDER STICK

Release Date: February 27, 2007

1. Product and Company Identification

Trade Name & Synonyms Silver solder stick	MSDS Code Number Refer to part number
Chemical Name Silver solder	Manufacture / Distributor GAC International Inc.
C.A.S. Number NA	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) NA	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	TLV	Approx. wt (%)	C.A.S. Number	Exposure Limits	%
Silver	0.1	N/A	NA	NA	55
Copper	0.2		NA	NA	22
Zinc	5.0		NA	NA	23

3. Hazard Identification

Emergency Overview NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	NA	NA	NA	NA	NA
Skin	NA	NA	NA	NA	NA
Inhalation	NA	NA	NA	NA	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure Minimum amount of fumes can be emitted without causing problems. However, if overexposed, fresh air is recommended.					
Carcinogenicity (IARC, NTP) NA					
Potential Environmental Effects NA					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	NA	NA	NA
Skin	NA	NA	NA
Inhalation	NA	NA	NA
Ingestion	NA	NA	NA
Other	Move individual outdoors for fresh air. If nausea persists, seek medical attention.	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) NA			



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5. Fire and Explosion Data

Flashpoint & Method: °C / °F N/A	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature N/A	Other NA
Flame Propagation or Burning Not flammable	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity- NA	
Extinguishing Media NA		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters Not flammable			
Unusual Fire and Explosion Hazards N/A			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment N/A
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings NA
Storage Practices and Warnings (°C / °F). Keep indoors. Store in a cool dry place. Keep container closed to avoid water absorption and contamination.

8. Exposure Control/Personal Protection

Ventilation Regular ventilation	Other Engineering Controls NA	
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Safety glasses	NA
Skin	Protective gloves: Not mandatory	NA
Inhalation	Use type for particulates not otherwise classified if needed.	NA
General Hygiene Considerations and Work Practices N/A		
Protective Measures During Repair and Maintenance of Contaminated Equipment NA		
Other Protective Measures and Equipment N/A		



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9. Physical and Chemical Characteristics

Appearance Solid wires		Odor NA
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> _____ (Other)		Boiling Point °C / °F N/A Melting Point 600 °C / °F Freezing Point °C / °F NA
Specific Gravity or Density (H₂O=1) N/A	Solubility in Water Insoluble	pH NA
Vapor Pressure (mm Hg @ 20°C) N/A	Vapor Density (AIR= 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A
Other % Volatile (by weight): N/A Viscosity: N/A		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Other: Acid contamination	
Hazardous Products Produced During Decomposition Oxides of zinc and copper	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur	Conditions to Avoid Temperatures over 800°C / °F
Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid Heating above 600°C / °F

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data Non-toxic.
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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements NA

13. Disposal Considerations

Regulations N/A
Properties (Physical/Chemical) Affecting Disposal NA



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14. Transport Information

Regulated for shipping? <input type="checkbox"/> Yes <input type="checkbox"/> No NA	Proper Shipping Name Silver solder stick	Packing Group NA
Do changes in quantity, packaging, or shipment method change product classification? <input type="checkbox"/> Yes <input type="checkbox"/> No NA	Hazard Class NA	Identification Number NA
Other NA		

15. Regulatory Information

Federal Regulations NA
International Regulations NA
Other Avoid contamination with acid or stone oxidizer. Proper ventilation needed in work place.

16. Other Information

Supplier Number: 39/97 Supplier Release: June 2, 1997
N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.