



Product and Company Identification

Product Series : Sn42Bi57Ag1

Proposed use/Restrictions on the Use:

Electronics and semiconductor components, welding alloys

Manufacturer: Capling Europe BV

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Effective date: 2019/01/18 (Validity: 3 years)

Hazard Identification

Items Hazard Classification: Specific target organ systemic toxicity following repeated exposure. (Hazard category 2) **Labeled Content Label Format** Health Hazards. Warnings Warning. Hazard warning 1. Ingestion of harmful. message 2. Harmful to the aquatic life. Hazard Please wear masks and gloves to avoid the inhalation of smoke and dust during operation. Be sure to wash your hands with soap after operation or prevention measures before eating. Taint Path Inhalation, Skin Contact, Eye Contact, Ingestion Environmental Not applicable. Hazards



Material Safety Data Sheet

Explosion Risk	Not applicable.	
Other Hazard: No relevant document.		

Component Identification Information

Pure material: Mixture

Chemical Properties :		
Chinese and English names of	Concentration or concentration ranges (% of contents)	
The hazardous ingredients		CAS NO.)
	Sn42Bi57Ag1	,
Tin	42± 2	07440-31-5
Bismuth	Balance	
Silver	1 ± 0.2	07440-22-4

First Aid Measures

First Aid Meth	ods for Different Exposure Pathways :			
Inhalation	Remove to fresh air. If not breathing, have a trained individual administer oxygen. Get medical attention immediately			
Skin Contact	Wash contaminated skin with non-abrasive soap and running water. Remove contaminated clothing. Get medical attention if skin irritation.			
Eye Contract	Check for and remove any contact lenses, immediately flush with plenty of water for at least 15 minutes and get medical attention			
Ingestion	Induce vomiting by the medical staff instructions.			
The Most Important Symptoms and Hazardous Effect:				
Irritation and excessive exposure to hot steam cause pulmonary edema.				
Protection for First-aid Personnel:				
Wear gas masks, oxygen cylinders and protective clothing for First-aid personnel.				
Prompt to Doo	ctor:			
Silver and inorganic compounds are neurotoxicants, they maybe bring peripheral nervous diseases.				



Fire Fighting Measures

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Suitable Extinguishing	Carbon dioxide, extinguishing powder or water spray.		
Special dangerous that may encounter while fire fighting	No relevant document.		
Special fire fighting procedure	Not suitable.		
Special safety equipment fire	No relevant document		
Hazardous properties	Not suitable.		
Hazardous combustion products	Not suitable.		

Accidental Release Measures

Personal precautions	Avoid inhalant soldering exhaust gas or dust.
Environmental precautions	Don't spread over the area.
Clean-up methods	Pump the air or water spray.

Handling and Storage

Handling	Keep 20 cm when soldering. The fumes produced during soldering should be extracted away from the breathing zone of the operators, use in a well-ventilated area. When using, avoid contact or breathing. Do not eat, drink or smoke. Thoroughly wash hands with soap and water after handling. Good industrial hygiene practices should be followed.
Storage	Store in a cool, well-ventilated area away from incompatible substances. Store in a tightly sealed container



Exposure Prevention Measures

Engineering Control:						
Provide adequate mech	nanical exha	ust.				
Monitoring method: No	ot applicable.					
Control Parameters :						
		T	LV D PEL		Other	
	Element	TWA 8	STEL	Ceiling		
Allowable Concentration	Sn	2.0 mg/m ₃	4.0 mg/m ₃			
Concentration	Bi					
	Ag	0.1 mg/m₃	0.03 mg/m₃			
Biological Indicators	Not applicable.					
Personal Protection Eq	uipment :					
Respiratory	Wear a HIOSH approved respirator to avoid over exposure HIOSH					
Hands	Suitable gloves					
Eyes	For handling: wear safety glasses with side shields. For melting, wear goggles and face shields. Don't wear contact lenses.					
Skin and Body	Wear coveralls and protective gloves. Inspect gloves before using.					
Skill and body				Wear gas masks, oxygen cylinders and protective clothing.		
Ambulance staff protection	Wear gas	masks, oxygen	cylinders and pro	otective clothing.		

Thoroughly wash exposed areas with soap and water before leaving work, eating, drinking and

Physical and Chemical Properties

smoking.





Material Safety Data Sheet

Appearance :	Odor: Odorless		
Silver-white metal			
Olfactory Threshold: Not applicable	Melting Point: 138 °C		
pH : Not applicable	Flash Point : Not applicable		
	Test Methods:		
	Not applicable		
Flammability:	Boiling/Boiling Point Range:		
Not applicable	Not applicable		
Resolve Temperature :	Heat of Combustion (kJ/mol):		
Not applicable	Not applicable		
Auto Ignition Temperature:	Explosion Limit:		
Not applicable	Not applicable		
Vapor Pressure: Not applicable	Vapor Density: Not applicable		
Density: 7.4 g/cm ₃	Ignition Temperature: Not applicable		
Solubility: Insoluble in water	Evaporation Rate: Not applicable		
Octanol / Water Partition Coefficient Values			
: Not applicable			

Stability and Reactivity

Chemical Stability: Stable under room temperature and pressure.

Special circumstances of the hazard Reaction: Not applicable.

Conditions to Avoid: Contamination. Contact with air or water.

Materials to Avoid:

Avoid oxidizing agents, acids, peroxides, moisture, chlorine, alkalies.

Hazardous decomposition products: Not applicable.

Belongings against: Not applicable.

Toxicological Information

Route of Exposure :				
Acute Toxicity	LD ₅₀	LD ₅₀ 24h	LD ₅₀	
	NA	NA	NA	NA



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Symptoms:

Coughing, difficulty breathing, headache, nausea, vomiting.

Chronic Toxicity or Long-term Toxicity: No relevant document.

Induced sensitivity: NA

Irritation: NA

Induced mutation: NA

Teratogenicity: NA

Reproductive toxicity: NA

Specific target organ systemic toxicity: NA

Other: NA

Ecological Information

Eco-toxicity:

LC50(Fish): NA

EC50(Aquatic invertebrates) : NA

biological Concentration factor (BCF): NA

Bioaccumulation: NA

Persistence and Degradability: NA

Biodegradable: NA

Non-biodegradable: NA

The Mobility in soil: NA

Other Adverse Effects NA

Disposal Considerations

Disposal Considerations:

To comply with relevant government laws and regulations dealing with.

Transportation Information

UN. No: NA



Capling

Material Safety Data Sheet

The United Nations shipping name: NA
Transportation hazard classification: NA
Packing : NA
Marine pollutant: NA
Special Shipping and Notes: NA

Regulatory Information

Applicable Laws and Regulations:

- 1. Occupational safety and sanitation rules.
- 2. Hazards and hazardous materials rules of Liberal Studies.
- 3. Labor working industry in ambient air concentrations of hazardous materials to allow the standard.
- 4. Road Traffic Safety Rules.
- 5. Industrial Waste Management Methods for storage clearance office and Facilities Standards.

Other Information

References	1.AIR PRODUCTS MSDS、INTERNATIONAL MARITIME DANGEROUS GOODS CODE 25. 2.MSDS Library, CCINFO, 9 9 -2, 2006-1 3.RTECS Library, TOMES PLUS, Vol.68, 2006 4.HSDS Library, TOMES PLUS, Vol.68, 2006		
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Other message	NA		

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