

Data Sheet On Solder

IDENTITY CERASOLZER ECO 182		No. 031732	Revision A	
Section I				
Manufacturer's Name Senju Metal Industry Co., Ltd.				
Address 23, Senju-Hasido-cho, Adachi-ku, Tokyo, JAPAN 120-8555		Telephone Number for Information 03(3888)5152		
		Data Prepared 16 Jul, 2003		
Section II - Hazardous Ingredients/Identity Information				
Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV	%
Tin	7440-31-5 *Current OSHA standard, and ACGIH(1980) Intended changes List for tin, tin oxide, and inorganic compounds(except SnH4), as Sn. STEL is for 4 mg/m ³	2mg/m ³ (8Hr-TWA)	2mg/m ³ (8Hr-TWA)	70~80
Antimony	7440-36-0	0.5mg/m ³ (8Hr-TWA)	0.5mg/m ³ (8Hr-TWA)	3~5
Zinc	7440-66-6			3~5
Indium	7440-74-6		0.1mg/m ³ (8Hr-TWA)	15~25
Section III - Physical/Chemical Characteristics				
Boiling Point	NA	Specific Gravity (H ₂ O=1)	7.1	
Vapor Pressure (mm Hg)	NA	Melting Point (°C)	145~243	
Vapor Density (AIR=1)	NA	Evaporation Rate (Butyl Acetate=1)	NA	
Solubility in Water	Insoluble			
Appearance and Odor	Silver-gray metal, odorless.			
Section IV - Fire and Explosion Hazard Data				
Flash Point	—	Flammable Limits	LEL	UEL
			—	—
Extinguishing Media	Carbon dioxide and/or dry chemical			
Special Fire Fighting Procedures	Use self-contained breathing apparatus and full protective clothing for fires in enclosed areas.			
Unusual Fire and Explosion Hazards	NA			

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Section V - Reactivity Data		IDENTITY CERASOLZER ECO 182	
Stability	Unstable		Conditions to Avoid Keep away from heat, sparks and open flames.
	Stable	X	
Incompatibility Strong oxidizing materials, acids, hydrogen peroxide.			
Hazardous Decomposition or Byproducts NA			
Hazardous Polymerization	May Occur		Conditions to Avoid NA
	Will Not Occur	X	

Section VI - Health Hazard Data

Route of Entry : Inhalation Skin Ingestion

Health Hazards

When heated, vapors can cause irritation to eyes, nose and throat. May cause headache.

Carcinogenicity : Not listed NTP IARC Monographs OSHA Regulated

Signs and Symptoms of Exposure

Symptoms of the neurological effects may include irritability, headaches, insomnia, delirium, convulsion, muscular tremors, and palsy of the extremities.

Medical Conditions Generally Aggravated by Exposure

Emergency and First Aid Procedures

Inhalation : Excessive overexposure may result in an acute or chronic illness. If symptoms are present, the individual should be removed from exposure and a physician consulted.

Ingestion : Call a physician at once.

Skin : For hot metal burns, exposed area should be cooled with water and get medical attention. After handling solder, wash thoroughly with soap and water.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Avoid inhalation of solder fume or dust. Vacuuming is recommended.

Waste Disposal Method

Contact supplier or a licensed chemical waste disposal contractor for treatment, packaging, and disposal requirements.

Precautions to Be Taken in Handling and Storing

Avoid breathing smoke during soldering. Wash hands before eating or smoking after handling solder.

Other Precautions

Section VIII - Control Measures

Respiratory Protection

A NIOSH approved dust/fume respirator should be worn where applicable limits may be exceeded.

Ventilation	Local Exhaust	Remove smoke from breathing area	Special	Not required
	Mechanical		Other	

Protective Gloves

Use plastic or rubber gloves and aprons where necessary to avoid skin contact.

Eye Protection

Safety glasses or goggles should be worn in areas where splashing may occur.

Other Protective Clothing or Equipment

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV's.

Work/Hygienic Practices