

## Data Sheet On Solder To: Joyce-san

IDENTITY ECO SOLDER M705		No. 001126	Revision B	
Section I				
Manufacturer's Name Senju Metal Industry Co., Ltd.				
Address 23, Senju-Hasido-cho, Adachi-ku,		Telephone Number for Information 03(3888)5152		
Tokyo, JAPAN 120-8555		Data Prepared 21 Jun. 2000		
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 SnH <sub>4</sub> ), as Sn. STEL is for 4 mg/m <sup>3</sup>	2mg/m <sup>3</sup> (8Hr-TWA)	2mg/m <sup>3</sup> (8Hr-TWA)	94 ~ 98
Silver	7440-22-4	0.01mg/m <sup>3</sup> (8Hr-TWA)	0.1mg/m <sup>3</sup> (8Hr-TWA)	2 ~ 4
Copper	7440-50-8	0.1mg/m <sup>3</sup> (8Hr-TWA)	1.0mg/m <sup>3</sup> (8Hr-TWA)	< 1.0
Section III - Physical/Chemical Characteristics				
Boiling Point (Solvent)	NA	Specific Gravity (H <sub>2</sub> O=1)	7.4	
Vapor Pressure (mm Hg)	NA	Melting Point (°C)	217~219	
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				

Section V - Reactivity Data		IDENTITY ECO SOLDER M705	
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			