IDENTITY CERASOLZER # 1	182		031732	vision	Α	
Section I						
Manufacturer'Name Senju Metal Industry Co.,	Ltd.					
Address 23, Senju-Hasido-cho, Adach		Telephone Number for Information 03 (3888) 5152				
Tokyo, JAPAN 120-8555	Data Prepared 16 Jul, 2003					
Section II — Hazardous Ingr	radiants/Identity Inf	formation				
Mazardous Components	CAS No.	OSHA PEL	ACGIH TLV		%	
Tin *Current OSI	7440-31-5 IA standard, and ACGING, tin oxide, and inorg	2mg/m³ (8Hr-TWA) H(1980)Intended cha	2mg/m³(8Hr-T	WA)	70~80	
Antimony	7440-36-0	0.5mg/m³ (8Hr-TWA)	0.5mg/m³(8Hr-T	WA)	3~5	
Zinc	7440-66-6				3~5	
Tu di em	7440 74 6		0 1 / 3/01 5	WA)	15 05	
Indium	7440-74-6		0.1mg/m³(8Hr-T		15~25	
Section III — Physical/Chem	ical Characteristics	Specific Gravi		WA)	7.1	
Section III — Physical/Chem: Boiling Point		Specific Grave	ity (H ₂ O=1)			
Section III — Physical/Chemi Boiling Point Vapor Pressure (mm Hg)	ical Characteristics	Melting Point Evaporation Ra	ity (H₂0=1) (°C)		7.1	
Section III — Physical/Chemi Boiling Point Vapor Pressure (mm Hg) Vapor Density (AIR=1)	ical Characteristics NA NA	Melting Point Evaporation Ra	ity (H20=1) (°C)		7. 1 145~243	
Section III — Physical/Chemi Boiling Point Vapor Pressure (mm Hg) Vapor Density (AIR=1) Solubility in Water	ical Characteristics NA NA NA Insoluble	Melting Point Evaporation Ra	ity (H20=1) (°C)		7. 1 145~243	
Section III — Physical/Chem: Boiling Point Vapor Pressure (mm Hg) Vapor Density (AIR=1) Solubility in Water Appearance and Odor	ical Characteristics NA NA NA Insoluble Silver-gray	Melting Point Evaporation Ra (I	ity (H20=1) (°C)		7. 1 145~243	
Section III — Physical/Chemisoling Point Vapor Pressure (mm Hg) Vapor Density (AIR=1) Solubility in Water Appearance and Odor Section IV — Fire and Explain	ical Characteristics NA NA NA Insoluble Silver-gray	Melting Point Evaporation Ra (I	ity (H ₂ O=1) (°C) ate Butyl Acetate=1)		7. 1 145~243	
Section III — Physical/Chemic Boiling Point Wapor Pressure (mm Hg) Wapor Density (AIR=1) Solubility in Water Appearance and Odor Section IV — Fire and Exploration Flash Point Extinguishing Media	ical Characteristics NA NA NA Insoluble Silver-gray	Melting Point Evaporation Ra (I	ity (H ₂ O=1) (°C) ate Butyl Acetate=1)		7. 1 145~243 NA	
Section III — Physical/Chemic Boiling Point Vapor Pressure (mm Hg) Vapor Density (AIR=1) Solubility in Water Appearance and Odor Section IV — Fire and Explain	Ical Characteristics NA NA NA Insoluble Silver-gray Insoluble Silver-gray Insoluble Carbon dioxide and edures	Melting Point Evaporation Ra (I	ity (H ₂ O=1) (°C) ate Butyl Acetate=1)	LEL	7. 1 145~243 NA UEL	

SMIC Confidential

· · · · · · · · · · · · · · · · · · ·	, .	SMIC CC	nt	Identiai			
Section V — Reactivity Data				IDENTITY CERASOLZER ECO 182			
Stability		Unstable		Conditions to Av	Avoid om heat, sparks and open flames.		
		Stable	X	keep away iron	neat, spai	rks and open flames.	
Incompatibility	Strong	oxidizing material	s, ac	ids, hydrogen perd	oxide.		
łazardous Decompo	sition or B	yproducts NA					
Hazardous Polymerizatio	ization	May Occur		Conditions to Av	void NA		
		Will Not Occur	X				
Section VI— Heal	th Hazard D	ata					
Route of Entry :		Inhalation		Skin	In	gestion	
Health Hazards When heated,vap	ors can cau	se irritation to e	yes,	nose and throat.	May cause 1	neadache.	
Carcinogenicity :	Not listed	l NTP		IARC Monograp	ohs OHS	SA Regulated	
Signs and Symptom Symptoms of the convulsion, musc	neurologic	re cal effects may inc cs,and palsy of the	lude ext	e irritability, hear	adaches, in	somnia, delirium,	
Medical Condition	ıs Gen	merally Aggravated	by E	Exposure			
pres Ingestion : Call Skin : For hot me	essive overe ent, the ind a physician etal burns, e	exposure may result lividual shoud be r n at once.	emov be c	red from exposure	and a phys	sician consulted.	
After hand	lling solder	r,wash throughly wi	th s	soap and water.			
		Safe Handling and					
Steps to Be Taker Avoid inhalatio	n in Case Ma on of solder	aterial is Released r fume or dust. Vac	or uumi	Spilled ing is recommended	d.		
Waste Disposal Me Contact supplie disposal requin	er or a lice	ensed chemical wast	e di	sposal contractor	r for trea	tment, packaging, and	
Precautions to Be Avoid breathing	e Taken in H g smoke duri	Handling and Storining soldering. Wash	g har	nds before eating	or smokin	g after handing sold	
Other Precautions	3						
Section VII — Cont	trol Measure	es					
Respiratory Prote A NIOSH approve	ection ed dust/fume	e respirator should	l be	worn where appli	cable limi	ts may be exceeded.	
Ventilation	Local Exhau	al Exhaust Remove smoke from		n breathing area	Special	Not required	
	Mechanical				Other		
Protective Gloves Use plastic or necessary to a	rubber glov		re	Eye Protection Safety glasse areas where s		es should be worn in ay occur.	
Other Protective Provide suffic- below TLV's.	Clothing or ient mechan	r Equipment iical (general and/	or I	local exhaust) ve	ntilation	to maintain exposure	
Work/Hygienic Pra	actices						