

Data Sheet On Solder

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| IDENTITY CERASOLZER ECO 217 | | No. 031733 | 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 | 2mg/m ³ (8Hr-TWA) | 2mg/m ³ (8Hr-TWA) | 94~96 |
| *Current OSHA standard, and ACGIH(1980) Intended changes List for tin, tin oxide, and inorganic compounds(except SnH ₄), as Sn. STEL is for 4 mg/m ³ | | | | |
| Antimony | 7440-36-0 | 0.5mg/m ³ (8Hr-TWA) | 0.5mg/m ³ (8Hr-TWA) | 3~5 |
| Zinc | 7440-66-6 | | | 1~3 |
| Section III - Physical/Chemical Characteristics | | | | |
| Boiling Point | NA | Specific Gravity (H ₂ O=1) | 7.28 | |
| Vapor Pressure (mm Hg) | NA | Melting Point (°C) | 199~217 | |
| Vapor Density (AIR=1) | NA | Evaporation Rate (Butyl Acetate=1) | NA | |
| Solubility in Water | Insoluble | | | |
| Appearance and Odor | Silver-gray metal, oderless. | | | |
| 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 217 | |
| 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 | | | |