

Identity:

Soldering Paste BS-10, -15, BS-CAN

**Section 1 - Company Information**

Manufacturer's Name:

TAIYO ELECTRIC IND. CO.,LTD.

Address:

2-16-8 Yamate Fukuyama Hiroshima Prefecture

Telephone Number / Fax Number for Information:

Tel : 81-(84)-951-1512 Fax : 81-(84)-951-9531

Japan 720-0092

Data Prepared:

28 March 2003

**Section 2 - Hazardous Ingredients/Identity Information**

Hazardous Component	CAS No.	OSHA PEL	ACGIH TLV	%
Zinc Chloride	7476-85-7	1mg/m <sup>3</sup>	8hr TWA 1mg/m <sup>3</sup>	4~6
Ammonium Chloride	12125-02-9	1mg/m <sup>3</sup>	8hr TWA 10mg/m <sup>3</sup>	1~3
Vaseline	8009-03-8	1mg/m <sup>3</sup>	-	80~90
Paraffin	8002-74-2	1mg/m <sup>3</sup>	8hr TWA 2mg/m <sup>3</sup>	6~9
Water	-	-	-	2~4

**Section 3 - Physical/Chemical Characteristics**

Boiling Point	NA	Specific Gravity (H <sub>2</sub> O=1)	0.88 (80 )
Vapor Pressure (mm Hg)	NA	Melting Point ( )	NA
		ALLOYS	
Vapor Density (AIR=1)	NA	Evaporation Rate (Butyl Acetate=1)	NA

Solubility in Water:

Water Insoluble

Appearance and Odor:

Odorless White Paste

**Section 4 - Fire and Explosion Hazard Data**

Flash Point:	Flammable Limits:	LEL	LEL
199 Over		NA	NA

Extinguishing Media:

Use appropriate extinguishing media for surrounding fire. Use water spray to cool and Carbon dioxide, dry, sand, foam extinguishant.

Special Fire Fighting Procedures:

Use self-contained breathing apparatus and full protective clothing for fires in enclosed areas.

Immediately remove the container to a safe place.

**Section 5 - Reactivity Data Identity**

Stability:	Unstable	Conditions to Avoid:
	Stable	Keep away from heat, sparks and open flames.
		X

Incompatibility:

It contains strong acid and is thus highly reactive with materials such as metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials.

Hazardous Polymerization	May Occur	Conditions to Avoid:
	Will Not Occur	NA
		X



## Soldering Paste BS-10, -15 ,BS-CAN 2/3

Ingestion

Inhalation of dust or fumes may be irritating to the nose, throat, and lungs. Prolonged or repeated contact with the skin may cause irritation, while contact with the eyes may caused irritation or burns. Ingestion causes irritation of the mouth and gastrointestinal tract.

Guinea pig (oral) : LD<sub>50</sub> : 200mg/kg

11day-pregnant : Chloride zinc 25.0mg/kg, Physique malform (rate : 76.8%)

If enters eyes, loss of eyesight may result.

Carcinogenicity is very low from a study in rooster, but testicle tumor was found after injecting to testicle for several months when the generative gland is active.

Mild irritation of the eyes, nose, and throat.

Generally aggravated by exposure.

Flush thoroughly with running water including under eyelids for at least 15 minutes and consult a physician.

Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and hot water. Get medical attention if rash persists.

Give 2-3 glasses of milk or water to drink to dilute. Seek medical help for treatment, observation and support after first aid.

Remove person to fresh air. Keep the person warm and calm.

**Steps to be Taken in Case Material is Release or Spilled:**

Notify safety personnel. Provide ventilation. This material should be handled and disposed as a strong acid.

For large spills: absorb spill with cloth.

For small spills: absorb spill with sand and remove.

**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:**

**Storing :** Store in a clean, cool dry and well-ventilated area away from sparks, open flames, and oxidizing agents. Keep locked up.

**Handling:** Avoid contact with eyes or skin. Wear protection gloves, glasses and respirator. Do not eat, drink or smoke during work. Sufficiently wash hands and gargle, then change clothes after work. Keep flames away from work area.

**Container:** Keep the container closed. Check that there are no breaks, cracks or corrosion. Do not drop, turn upside down or give a shock to a container. Keep the plug facing upward. Collect the empty containers in one place.

**Other Precautions :**

NA

**Section 8 - Control Measures****Respiratory Protection:**

Self-contained breathing apparatus should be available for emergency. Wear filter respirator.

Ventilation:	Local Exhaust: Remove smoke from working area.	Special: Not required
	Mechanical: NA	Other: NA

**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 eye bath near work site and sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV's. Wear face shield and boots.

**Work/Hygienic Practices:**

None

**Section 9 - Ecological Information****Bioaccumulation:**

None or slight

**Ecological toxicity:**

Fish toxicity : Study in goldfish

Chloride zinc : LC<sub>0</sub> = 9.6 (mg/l)

LC<sub>50</sub> = 21 (mg/l)

LC<sub>100</sub> = 24 (mg/l)

**Section 10 - Other Information**

The information herein is given in good faith, but not a warranty. Final determination of suitability any of material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



**TAIYO ELECTRIC IND.CO.,LTD.**