

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name :** Ceramic Patch Antenna I4G Series (Mixture Chemical)

**Manufacturer :** INPAQ TECHNOLOGY CO., LTD. CHUNAN BRANCH

No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C. (Kuan Yuan Science Park)

**Phone number :** 037-585555

**Fax number :** 037-585511

### 2. HAZARDOUS INGREDIENTS

| Ingredient                 | CAS NO.   | % by weight |
|----------------------------|-----------|-------------|
| (Mg, Ca)TiO <sub>3</sub> - | -         | >95.0       |
| Silver                     | 7440-22-4 | <2.0        |
| Tin                        | 7440-31-5 | <0.5        |
| Copper                     | 7440-50-8 | <1.0        |

### 3. HEALTH HAZARD INFORMATION

**Health Effects / Symptoms of Exposure :**

The information presented pertains to the product. Hazards associated with byproducts generated during thermal Degradation are listed in a later section. Toxicity studies have not been performed on the product as a whole.

**Acute (Short-Term Exposure) :**

This product does not pose any known acute exposures during handling or proper Installation. Exposure to thermal degradation byproducts may occur. (see Thermal Degradation and Combustion Byproducts).

**Eye Contact :** Not applicable.

**Skin Contact :**

This product is intended to warm up under certain circumstances. Under extreme conditions, the product surface may get hot enough to burn the skin on contact.

**Ingestion :** Not applicable.

**Inhalation :** Not applicable.

### 4. FIRST AID MEASURES

**EYE CONTACT :** Not applicable.

**SKIN CONTACT :** Wipe area off and wash affected skin areas thoroughly with water.

**INHALATION :** Not applicable.

**INGESTION :** If ingested, consult a physician immediately.

## 5. FIRE FIGHTING MEASURES

**Specific Hazards :** Not applicable.

**Extinguishing Media :** Not applicable.

**Unsuitable Extinguishing Media :** Not applicable.

**Protective Equipment :** Full protective clothing and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions :**

Ventilate contaminated area thoroughly. Do not breathe vapor. Extinguish naked flames. Removes ignition sources. Take precautionary measures.

**Environmental Precautions :**

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Clean-Up Methods :**

Transfer to a labeled, sealable container for product recovery of safe disposal. Treat residues as for small spillage.

## 7. HANDLING AND STORAGE

**HANDLING :** There are no special handling requirements for these products.

**STORAGE :** Keep away from heat or flame.

## 8. Exposure Controls / Personal Protection

**Engineering controls :** Not applicable.

**Personal Protective Equipment :**

**Eyes:** Not applicable.

**Skin:** Wipe area off and wash affected skin areas thoroughly with water.

**Clothing:** Not applicable.

## 9. Physical and Chemical Properties

|  |                                    |
|--|------------------------------------|
| Physical State: solid body                 | Appearance: Light Pink             |
| Color : Silver → silver                    | Odor: tasteless, mild              |
| PH : —                                     | Boiling Point : Over 260°C         |
| Melting/ Freezing Point : ALLOYS 217~219°C | Flash Point : °F — °C              |
| Auto-ignition Temperature : —              | Explosion/ Flammability Limits : / |
| Vapor pressure : NA                        | Vapor Density (Air=1) : NA         |
| Density : 0.xxxx(water=1)                  | Solubility in Water : Insoluble    |

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## 10. Stability and Reactivity

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**Chemical Stability:** Stable under normal temperatures .

**Conditions to Avoid:** dust generation. Keep away from heat and open flames.

**Incompatibilities with Other Materials:** Not applicable.

**Hazardous Decomposition Products:** Not applicable.

**Hazardous Polymerization:** Has not been reported.

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## 11. Toxicological Information

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**Acute toxicity**

Harmful by inhalation and if swallowed.

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## 12. Ecological Information

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**No data available on the adverse effects of this product on the environment.**

Ecological data are not available. Material should be treated as harmful to aquatic organisms

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## 13. Disposal Considerations

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**Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.**

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

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## 14. Transport Information

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This product is NOT RESTRICTED BY IATA REGULATION.

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## 15. Regulatory Information

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**USA :**

TSCA Status.....All ingredients listed on TSCA inventory.

SARA TITLE III, 302/303 EHS.....None.

SARA TITLE III, 304 HS.....None.

SARA TITLE III, 311/312.....None.

SARA TITLE III, 313.....None.

**CANADA :**

DSL/NDSL.....All ingredients are listed.

WHMIS.....Not Classified.

**EC :**

EINECS.....All ingredients are listed.

## 16. Other Information

|                             |   |
|-----------------------------|---|
| <b>Manufacturer</b>         | INPAQ TECHNOLOGY CO., LTD. CHUNAN BRANCH  |
| <b>Manufacturer address</b> | No.11, Ke-Yi St., Chunan, Miaoli 350, Taiwan, R.O.C. (Kuan Yuan Science Park)   |
| <b>Phone number</b>         | 037-585555 Ext:2513   |
| <b>Department</b>           | Research& Develop   |
| <b>Made By</b>              | Joyce Chen , RD assistant   |
| <b>Date Prepared</b>        | 2006/8/24   |
| <b>remark</b>               | <b>we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.</b> |