
Material Safety Data Sheet

1、 Product and Company Identification

Name of product:	Gold (Au/plating layer)
CAS Number:	7440-57-5
Manufacturer:	SHENZHEN JIAHONGTAI INDUSTRIAL CO.,LTD 广东省深圳市宝安沙井共和村第六工业区 Tel:0755-29932050 Fax:0755-27142099

2、 Composition/information on ingredients

Material	Purity	Impurities	Elements,ppm
Gold(Au)	99.99%	≤100%	Ag:≤15,Fe:≤10,Cu:≤5

3、 Hazards information for man and environment

No identified effect on man and environment.

4、 First aid measures

General information:

Product composition and nature is insusceptible to case of any inhalation and ingestion.

In case of skin contact:

If anyone has allergy to gold ,seek medical advice.

In case of eye contact:

Avoid too much rolling of eye ball and immediately seek doctor for treatment.

Treatment:

Seek medical advice for any symptoms.

5、 Fire fighting measures

Product does not burn but will only change form and melt down if directly expose to fire.

6、 Accidental release measures

No special measures.

7、 Handling and storage

Wear protective gloves to handle the product and Store in controlled environment to avoid any smudginess or oxidation.

8、 Exposure controls /personal protection

Personal protective Equipment:

Skin: wear appropriate gloves to prevent skin exposure.

The others, No declared special measures.

9、 Physical and chemical properties

Form	Color	Odor
Soid layer	yellow gold	odorless
Boiling point :	2807 deg centigrade	
Melting point :	1063 deg centigrade	
Density :	19.3 (17.5) g/cm ³	
Solvent solubility:	aqua regia,hot sulfuric acid, alkali cyanide solution	

10、 Stability and reactivity

Conditions to avoid:

No hazardous reactions knowm.

Hazardous decomposition products:

None.

11、 Toxicological information

No known precise information.

12、 Ecological information

Ecological data are not available。

13、 Disposal considerations

Recommendations for the product:

Not to be disposed, recyclable material。

Recommendation for the packaging

No special requirements。

14、 Transport information

Not regulated。

15、 Regulatory information

Remarks for classification, Does not require a hazard warning label but proper handling precautions must be observed。

16、 Other information

Disclaimer:

Prepared by SHENZHEN JIAHONGTAI INDUSTRIAL CO.,LTD, from the knowledge available;
No responsibility is accepted that the information is sufficient or correct in all cases。

Release Dept : Administration dept.

Editor: GAOJINXIA

Date: 2012--05-11

Rev.: A1

Material Safety Data Sheet

1、 Product and Company Identification

Name of product:	Nickel (Ni/plating layer)
CAS Number:	7440-02-0
Manufacturer:	SHENZHEN JIAHONGTAI INDUSTRIAL CO.,LTD 广东省深圳市宝安沙井共和村第六工业区 Tel:0755-29932050 Fax:0755-27142099

2、 Composition/information on ingredients

Material	Purity Impurities	Elements,ppm
Nickel(Ni)	99.80%≤100%	Fe、 Ag、 Cu, etc

3、 Hazards Identification

Emergency overview:

Limited evidence of a carcinogenic effect . May cause sensitization by skin contact.

Potential Health Effects:

Eye: May cause eye irritation.

Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May cause severe irritation and possible burns. May cause dermatitis.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever,chills,cough,weakness,chest pain,muscle pain and increased white blood cell count . Inhalation of a mist of this material may cause respiratory tract irritation. Breathing Nickel(Dust and Fume)can cause a sore or hole in the "bone"(septum)dividing the inner nose.

Chronic: Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. May cause respiratory tract cancer.

4、 First aid measures

Eyes: Wash eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid if irritation develops or persists. Wash clothing before reuse. Wash skin with plenty of soap and water.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person, Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Antidote: There exists several chelation agents. The determination of their use should be made only by qualified medical personnel.

5. Fire fighting measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Dust can be an explosion hazard when exposed to heat or flame.

Extinguishing Media: Confining and smothering is preferable to applying water.

Do not use water, CO₂, or foam directly on fire itself. Use dry sand, Sodium chloride powder, graphite powder, copper powder or Lith-X powder. Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment. (Applicable to dust or vapour)

6. Accidental release measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Very fine particles can cause a fire or explosion, Eliminate all ignition sources. Reduce airborne dust and prevent scattering by moistening with water. Sweep up, then place into a suitable container for disposal. Carefully scoop up and place into appropriate disposal

container.(Applicable to dust or vapour)

7、 Handling and storage

Handling: Wash thoroughly after handling. Wear protective gloves to handle the product and Store in controlled environment to avoid any smudginess or oxidation.

8、 Exposure controls/personal protection

Personal protective Equipment:

Skin: Wear appropriate gloves to prevent skin exposure.
The others, No declared special measures.

9、 Physical and chemical properties

Physical State: Solid **Color:** white to gray white

Odor: none reported **ph:** Not available

Vapor Pressure: 1 mm Hg@1810 C **Viscosity:** Not applicable

Boiling Point: 2730 deg C **Melting Point:** 1455 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Decomposition Temperature: Not available.

Solubility in water: Insoluble in water.

Specific Gravity/Density: 8.90

Molecular Formula: Ni **Molecular Weight:** 58.69

10、 Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials,dust generation.

Hazardous decomposition products: No hazardous reactions known.

11、Toxicological information
No known precise information.

12、Ecological information
Ecological data are not available.

13、Disposal considerations

Recommendations for the product: Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice.

Recommendation for the packaging
No special requirements .

14、Transport information

Not regulated.

15、Regulatory information

The proper handling precautions must be observed.

Other requirements must be accordance with local directive or statute.

16、Other information

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Release Dept: Administration dept.

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