



## Shanghai King Chemical Co.,Ltd

Tel: +86-21-67817854 Fax: +86-21-67817855

Address: ROOM CDEF , 9th Floor, Building D, Weijing Center Tower  
NO.2337 GuDai Road, Minhang District, Shanghai, China

### Technical specification for chemical safety

#### Part I Chemical products and enterprise identification

**Chinese name of chemical:** Aluminum paste

**Chemical Name:** Aluminum Pigment

Other name: High-end oily imitation electroplating aluminum paste 5504

**Enterprise name:** Shanghai King Chemical Co.,Ltd

**Address:** ROOM CDEF , 9th Floor, Building D, Weijing Center Tower, NO.2337  
GuDai Road , Minhang District, Shanghai, China

**Zip code:** 201199

**Tel:** +86-21-67817854

**Email address:** cratos@shkingchem.com

**Recommended use:** Silver metal pigment, mainly used as silver metal coating effect,  
radiation protection effect.

**Restricted use:** This product shall not be used in food processing.

**MSDS No. :** JCSY-MDSS-5504

**Originally prepared:** 2010-01-06

**Revised:** 2020-06-08

**Effective:** 2020-10-16

#### Part II Overview of risk

**Danger category:** Class 3.3 flammable liquids

**Invasion route:** Ingestion by inhalation and percutaneous absorption

**Health hazards:** Inhalation of volatile gas may cause slight discomfort, accidental  
ingestion may cause vomiting, bronchopulmonary edema, etc.

**Environmental hazard:** Slight contamination of water source or farmland. Contact  
local government immediately.

**Explosion hazard:** in case of open fire, high heat and oxidizer, there is danger of  
combustion and explosion.

**Pictogram:**



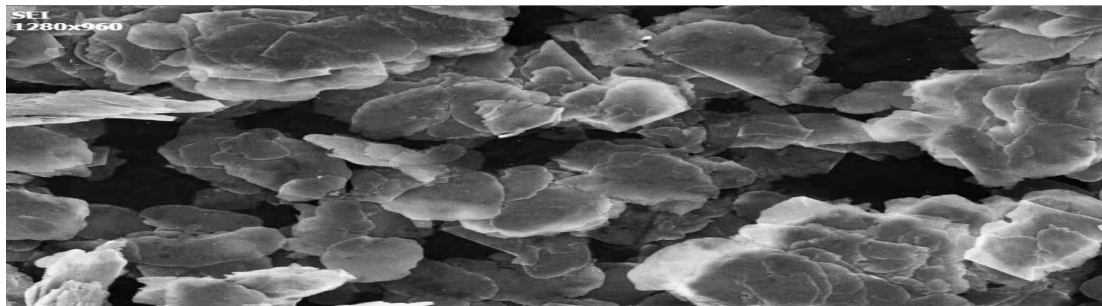
#### Part III Component information



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This chemical is a mixture.

Chemical composition	percentage (%)	CAS NO.
Flake aluminum	75%	7429-90-5
Solvent oil	25%	64741-66-8
Ethyl silicate	29%	647441-66-8

### Part IV First aid measures

**Skin contact:** Remove all contaminated clothing immediately. Rinse skin with water and shower.

**Eye contact:** Immediately lift eyelid, rinse thoroughly with plenty of running water.

**Inhalation:** Remove quickly from the scene to fresh air. Give artificial respiration if necessary. Go to a doctor.

**Ingestion:** Vomiting, seek medical advice immediately.

### Part V Fire control measures

**Danger:** Flame, high heat, oxidizer may cause combustion and explosion danger.

**Harmful combustion products:** Carbon monoxide, carbon dioxide

**Fire extinguishing method and extinguishing agent:** Sand, dry powder, carbon dioxide.

**Precautions for extinguishing fire:** Do not use water to extinguish fire. Water may cause hydrogenation reaction of aluminum and silver slurry. Do not use halogen extinguisher, which may lead to explosion.

### Part VI Emergency treatment of leakage

**Emergency treatment:** Use tools such as shovels and spoons that will not produce sparks to transfer the leakage to sealed containers so as not to volatilize solvents and avoid fire sources. Do not vacuum clean.

**Cleaning method:** Use insulating tools to concentrate the leakage into a special container for waste disposal that can be sealed.



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### Part VII Operation, disposal and storage

**Precautions for operation:** It is best to operate in a well-ventilated place, do not smoke, and do not expose the container to the air to avoid solvent volatilization.

**Storage precautions:** Keep away from open fire, high temperature and high static area, keep indoor ventilation, indoor temperature does not exceed 40°C.

### Part VIII Contact control and personal protection

**Maximum allowable concentration:** 100PPM

**Temporary measurement method:** No data

**Engineering control:** Tightly sealed, provide sufficient local exhaust.

**Respiratory protection:** Wear a protective mask

**Hand protection:** Wear protective gloves

**Eye protection:** Wear protective glasses

**Skin and body protection:** Wear protective clothing

### Part IX Physical and chemical properties

**Appearance and properties:** Silvery gray moist solid, with light aroma.

**PH value:** No data      **Available Melting point (° C) :** No data available

**Boiling point (°C) :** >35      **Relative density (water =1) :** 1.105-1.120

**Flash point (°C) :** > 93      **Flash point (°C) :** > 93

**Relative vapor density (air =1):** No data

**Available saturated vapor pressure (kPa):** No data available

**Heat of combustion (kJ/mol) :** No data      **Critical temperature (°C) :** No data

**Critical pressure (MPa) :** No data available

**octanol/water partition coefficient:** No data available

**Explosion lower limit [% (V/V)] :** No data

**Explosion upper limit [% (V/V)] :** No data

**Molecular formula:** No data      **Size (µm) :** 4

**Solubility:** Insoluble in water, but soluble in benzene, alcohol, ether, and other organic solvents.

**Main uses:** Silver metal pigment, mainly used as coating silver metal effect effect, radiation effect, etc.

### Part X Stability and reactivity

**Stability:** Stable at room temperature and pressure

**Forbidden match:** Water, acid and base

**Avoid contact conditions:** No data available



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**Convergence damage:** cannot appear

**Decomposition products:** Carbon monoxide, carbon dioxide.

**Dangerous reaction:** Contact with water, acid and base, hydrogen decomposition will be produced.

### Part XI Toxicological data

**Acute toxicity:** No data available

**Subacute and chronic toxicity:** No data available

**Irritant:** No data available

**Mutagenicity:** No data available

**Teratogenicity:** No data available

**Carcinogenicity:** No data available

**Others:** No data available

### Part XII Ecological data

**Ecotoxicity:** Data unavailable

**Biodegradability:** No data available

**Non-biodegradability:** No data available

**Bioaccumulation or bioaccumulation:** No data available

**Other harmful effects:** No data available

### Part XIII Waste disposal

**Nature of waste:** Hazardous waste

**Waste disposal:** Store in professional disposal of waste in airtight containers.

**Disposal precautions:** the disposal of the product and container should be recycled by a qualified waste disposal agency.

### Part XIV Transportation Information

**Dangerous Goods No. :** 33646

**UN number:** No data available

**Category of packaging:** III

**Packing:** Iron drums lined with plastic bags

**Transportation precautions:** Handle with care, avoid violent collision

### Part XV Regulatory Information

**Regulatory information:** Applicable to the scope of Chinese laws



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### **Section XVI Other Information**

**Reference:** ISO1247-93

**Filing department:** Technical Department