

Material Safety Data Sheet

1. Product and Company Identification

Product name: Art Clay Gold K22 / Clay type and Syringe type
Manufacturer: Aida Chemical Industries Co., Ltd.
Address: 6-15-13 Minami-cho, Fuchu-shi, Tokyo
Contact Department: Product Development Department
Telephone: +81 (0) 42 334 6319
Fax number: +81 (0) 42 224 6359
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Office hours: 9:00am – 18:00 pm

2. Composition, Information on Ingredients

Classification of Product: Mixture
Chemical Nature: Gold (Au), Silver (Ag) and Binder (Organic materials)
Ingredients (% by wt.): Mixture of Gold and Silver 80-95% and Binder 5-20%
Official Reference Number: Gold: N/D, Silver: N/A, and Binder: N/D
CAS Registry Number: Gold: N/D, Silver: 7440 – 22 – 4, and Binder: N/D

3. Hazardous Identification

Toxicity: Possible irritation to the skin and mucous membrane, irritation of upper respiratory depending on the working environment.
Environmental Effects: N/D
Physical and Chemical Hazard: Avoid contact with a strong acid and strong base.
Adverse Human Health Effects: Possible color change on mucous membrane for eye(s), nose and throat, and chronic irritation of respiratory organs, caused by long period use depending on the working environment.
Classification system: N/D (Japan Standard Classification)

4. First Aid Measures

Inhalation: Blow nose and gargle. If signs / symptoms occur, remove person to fresh air. If signs / symptoms continue, call a physician.
Skin Contact: Wash well with soap and water.
Eye Contact: Immediately flush eye(s) with plenty of water until no foreign body is felt. Get immediate medical attention.
Ingestion: Wash your mouth well with water and gargle. Get medical attention if necessary.

5. Fire-Fighting Measures

Extinguishing media: Water, Dry chemicals, CO2
Specified method: In case of a small scale fire, use water, dry chemicals or CO2. In case of a larger scale fire, wear protective gas mask and use water spray method.

6. Accidental Release Measures

Health measures: Put on dust protection mask, goggle and gloves if necessary.
Environmental measures: In case of large release, do not release to a sewer or natural environment.
Removal method: Remove by vacuuming or mop with a cloth, and then wash.

7. Handling and Storage

Handling: Wash well with soap and water after skin contact. Put on dust protection mask, goggle and gloves if necessary.
Storage: Keep in cool and dark place avoiding direct sunlight.

8. Measures for Protecting Exposure

Measure to Install: Install ventilation system near the working area if dust occurs.
Protections: Put on protection mask, glasses, and gloves.
Hygienic Practice: Wash thoroughly after handling.

9. Physical / Chemical Characteristics

Appearance: Color / yellowish brown, Order / none
Boiling Point: Gold - Mixture of Gold and Silver / 2800°C / 5072°F
Melting Point: Gold - Mixture of Gold and Silver / 1058°C / 1936.4°F
Solubility: Gold - Mixture of Gold and Silver / insoluble in water / soluble in nitric acid and /or aqua regia
Binder / soluble in water
Flash Point: Gold - Mixture of Gold and Silver / none
Binder / 300-400°C / 572-752°F
Combustible: Gold - Mixture of Gold and Silver / incombustible
Binder / combustible

10. Stability and Reactivity

Stability: Stable
Hazardous Reaction: None
Condition to avoid: High temperature / high humidity
Hazardous decomposition: None

11. Health Hazard

Acute Toxicity: None
Skin Corrosion: Possible irritation to the skin and mucous membrane
Inhalation: Possible irritation of upper respiratory including soreness of nose and throat, coughing and sneezing.

12. Ecological Information

Mobility: May release in dust form in the air depending on the working environment.
Contamination: N/D
Decomposition: N/D
Bioaccumulation: N/D

13. Disposal Consideration

Disposal method: Following the handling of general industrial waste according to the instruction of the local authority.

14. Transportation Information

International Regulation: Transport in accordance with federal, state and/or local regulations.
Transportation Consideration: Avoid high temperature, high humidity and shock on the container.

15. Regulatory Information

Laws of Labor, Safety and Health: Silver / reporting material (#138 / silver and its water-soluble compound – under 1% inclusion)
Pollutant Release and Transfer Register: Silver / Category 1 Designated Chemical Material (#64 silver and its water-soluble compound – over 1% inclusion)
Ordinance Review for Regulation of Dangerous Substance, Chapter 1-12: Binder / Designated combustibility synthetic resins (misc. category)

Other Information

Reference: Chemical Encyclopedia (KYORITSU SHUPPAN CO., LTD.)
Chemical Merchandise of 12394 (THE CHEMICAL DAILY CO., LTD.)
Website of Japan Chemical Industry Association(JCIA) <http://www.nikkakyo.org/> National Institute of Technology and Evaluation (NITE) <http://www.nite.go.jp/>
JIS Z 7250 (Japanese Industrial Standards Z-7250)
Fire Precedent: None

This Material Safety Data Sheet is complied with JIS Z 7250 and formatted as same as ISO11014-1. These data are based on our present state of knowledge and experience, and correct as of the date issued. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. User is responsible for determining whether above mentioned product is fit for a particular purpose and suitable for user's method of use or application.