## **GHS Safety Data Sheet**

SDS No.: AGE01PAEG Date Issued : 2002/11/04 Last updated : 2019/05/23

# Section 1. Identification of the substance or mixture and of the supplier

#### **Product Information**

Product name:Ag Silver

Product number:	Purity	Form	Size or Shape
AGE10PB	99.9%(3N)	reduced powder	_
AGE08PB	3N	reduced powder	ca.1 µm
AGE04PB	3Nup	powder by electrolysis	75~150 μm
AGE05PB	3Nup	powder by electrolysis	75 μm pass
AGE06PB	3Nup	powder by electrolysis	45 μm pass
_	3N	powder	10~20 μm

#### Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd.

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Recommended uses and restrictions on use: For research purposes

#### Section 2. Hazards identification

#### **GHS** Classification

Health Hazards	Environmental Hazards	Physical Hazards
Serious eye damage/eye irritation: Category 2B Skin sensitization: Category 1 Specific target organ toxicity, single exposure: Category 1 Specific target organ toxicity, repeated exposure: Category 1	No data available	Flammable solids: Not classified Pyrophoric solids: Not classified Self-heating substances and mixtures: Not classified Substances and mixtures which, in contact with water, emit flammable gases: Not classified Corrosive to metals: Not classified

GHS Label: C, W

Warning word:





Pictograms or symbols:

(eye, respiratory organs; Inhalation)

through prolonged or repeated exposure

DANGER

Hazard information	Description of precaution		
Causes eye irritation	Wear protective gloves/protective clothing/eye protection/respiratory		
May cause an allergy skin reaction	protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke		
Causes damage to organs when using this product, and wash hands thoroughly after handling.			
(respiratory system)	Take off the contaminated clothing and wash before reuse. Contaminated		
Causes damage to organs	work clothing should not be allowed out of the workplace.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

 ${\bf Call\ a\ POISON\ CENTER\ or\ doctor/physician\ if\ you\ feel\ unwell.}$ 

Store locked up.

Dispose of contents/ container in accordance with local/national regulations.



### Section 3. Composition / information on ingredients

Chemical or common name: Silver
Chemical formula: Ag

Single Substance or Compound: Single substance

 Composition:
 100%

 CAS #:
 7440-22-4

 RTECS#:
 VW3500000

 TSCA inventory:
 listed

 EINECS:
 2311313

#### Section 4. First aid measures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Continue to rinse for at least 15 minutes and get medical attention.

Skin contact: Promptly flush contaminated skin with soap or mild detergent and water.

Contact physician if irritation continues.

Inhalation: Remove the exposed person immediately and provide fresh air.

Get medical attention.

Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

### Section5. Fire fighting measures

Extinguishing media: Dry sand, Perlite, Metal fire extinguishers.

DO NOT use water fog or foam, carbon dioxide.

Fire fighting: Remove containers to safe place if possible.

Self-contained breathing apparatus and full protective clothing should be

used, if the material is involved in fire.

### Section 6. Accidental release measures

Personal Precautions:

Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.

Environmental hazard precautions:

Shut off leak if without risk.

Prevent flow out to river, etc. so as not to badly affect.

Method for containment and cleaning up:

Indoor leakage: Ventilate as much as possible until the cleaning is completed.

Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible.

Carefully collect remnant and move to a safe place.

### Section 7. Handling and storage

#### Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin

contact is foreseen.

Avoid prolonged or repeated exposure.

#### Precautions to be taken in storage:

General precautions: Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from incompatible

materials.



### Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH (2013): TLV-TWA 0.1 mg/m<sup>3</sup>

OSHA (2006) : PEL-TWA 0.01mg/m<sup>3</sup>

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent

inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles,

protective gloves.

### Section 9. Physical and chemical properties

Color and Form: Silver white solid, odorless

Chemical formula: Ag
Formula weight: 107.9
Melting point: 951.9  $^{\circ}$ C
Boiling point: 2212  $^{\circ}$ C
Specific gravity: 10.5 g/cm<sup>3</sup>

Solubility: Insoluble; water, hydrochloric acid

Dissoluble; nitric acid, hot sulfuric acid

Flammability: Non-combustible substance

Oxidation: None

### Section 10. Stability and reactivity

Stability: Stable in closed container under room temperature.

Reactvity

Condition to avoid: No data available

Incompatibility: Strong acids, strong bases, oxalates, tartaric acid.

### Section 11. Toxicological information

Acute toxicity(Oral): GHS: Not classified; Falls below the lowest level.

Oral rat LD50 > 5000 mg/kg (HSDB (2003))

Acute toxicity(Dermal): GHS: Not classified; Falls below the lowest level.

Dermal rat LD50 > 2000 mg/kg (HSDB (2003))

Skin corrosive / irritation: GHS: Not classified; Falls below the lowest level.

Serious eye damage / irritation: GHS: Category 2B; Causes eye irritation

Respiratory sensitization: GHS: No data available

Skin sensitization: GHS: Category 1; May cause an allergy skin reaction.

Germ cell mutagenicity: GHS: No data available Carcinogenicity: GHS: No data available Reproductive toxicity: GHS: No data available

Specific target organ toxicity

-single exposure: GHS: Category 1; Cause damage to organs (respiratory system).

-repeated exposure: GHS: Category 1;

Cause damage to organs (eye, respiratory organs; inhalation)

through prolonged or repeated exposure.

Aspiration hazard: GHS: No data available

### Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

-acute toxicity: GHS: No data available-chronic toxicity: GHS: No data available



Hazardous to the ozone layer GHS: No data available

No Freon or Halon

Fish toxicity:

Degradability:

Bioaccumulative potential:

Mobility in soil:

No data available

No data available

No data available

### Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed

'Industrial Waste Haulers' for disposal of waste.

### Section 14. Transport information

UN classification: Not hazardous

UN number: None HS code: 7106.10 Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

### Section 15. Regulatory information

TSCA inventory: Listed.

Please refer to any other local / national measures that may be relevant.

### Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

