

Safety Data Sheet

Silver Acetate

1st Version : Feb. 01. 2011

Revised : Mar. 31. 2025

1. Product and company information

Product Name : Silver Acetate
 Company Name : Toyo Chemical Industrial Co., Ltd.
 Address : 2-26-13 Naka-Izumi, Komae-City, Tokyo
 Tel : +81-3-3489-5152
 Fax : +81-3-3488-1706
 Emergency Contact : As above
 Recommended use of the product and restrictions on use : Antibacterial, catalyst, and synthetic organic intermediate

2. Hazard identification

GHS classification of the substance All items are "Outside scope of classification" or "Cannot classify".

GHS Label elements
 Pictograms : None
 Signal word : None
 Hazard statements : None

Precautionary statement
 Safety measures : Do not breathe dust.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.

Emergency measures : If swallowed : Call a doctor if you feel unwell.
 If on skin : Wash with plenty of water or soap.
 If skin irritation occurs : Get medical advice/attention.
 If inhaled : Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses if present and easy to do - continue rinsing.
 If eye irritation persists : Get medical advice/attention.
 Collect spillage.

Storage : Store locked up.
 Disposal : Dispose of contents/container entrust to a specialized waste disposal company.

3. Composition/information on ingredients

Substance or Mixture :		Substance			
Chemical name	Molecular formula (molecular weight)	CAS No.	Reference numbers in gazetted list in Japan (CSCL)	Reference numbers in gazetted list in Japan (ISHL)	Concentration or concentration range
Silver (I) Acetate	CH ₃ COOAg (166.91)	563-63-3	2-693 (Acetate)	—	100%

4. First-aid measures

If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/attention if you feel unwell.

Skin contact : Wash with plenty of water/soap.
 Immediately call a doctor.

Eye contact :	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists : Get medical advice/attention.
Ingestion :	Rinse mouth. Get medical advice/attention if you feel unwell.
Protection of people implementing emergency measures :	Rescuers should wear suitable protective equipment according to the circumstances. (See section 8. Exposure controls / personal protection)

5. Fire-fighting measures

Suitable extinguishing media :	Water, carbondioxide, gas, foam, powder
Do not use extinguishing media :	No information
Specific hazards :	This substance can generate irritating or harmful gases (or fumes) in the event of a fire, so wear protective equipment when extinguishing fires.
Specific fire extinguishing method :	Move the container from the region on fire to a danger free location. Continue to thoroughly cool the containers using copious amounts of water even after the fire has been extinguished. If it cannot be moved, cool it by sprinkling water around the container and its surroundings.
Special protective actions fire-fighters :	Wear suitable air respirators and protective clothing (heat resistant). (See section 8. Exposure controls / personal protection)

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures :	Workers must wear appropriate protective equipment (see section 8. Exposure controls / personal protection) and avoid contact with eyes and skin and inhalation. Do not touch the leakage and do not walk on it. Prohibit the entrance except the person concerned.
Environmental precautions :	Avoid discharging into the environment.
Methods and materials for containment and cleaning up :	No information
Preventing secondary accidents :	No information

7. Handling and storage

Handling	
Technical measures :	Take the equipment measures described in "8. Exposure controls/personal protection" and wear protective equipment. Described in "8. Exposure controls/personal protection" perform local exhaust and general ventilation.
Precautions for safe handling :	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/protective glasses/protective surfaces. Avoid swallowing. Avoid contact with the skin. Do not get it in your eyes. Avoid discharging into the environment.
Contact evasion:	See "10. Stability and reactivity" section.
Storage	
Safe storage conditions :	Store locked up. Store in a closed container, dry and cool place. Store in a cool, dark place away from direct sunlight.
Container and packing materials :	Airtight containers (glass, polyethylene, polypropylene, stainless steel, etc.)

8. Exposure controls/personal protection

Control concentration :	Not set
Tolerable concentration:	
Japan Society for Occupational Health (2024)	0.01mg/m ³ (as Ag)

ACGIH (2014)	TLV-TWA (0.01 mg/m ³) as Ag Soluble compounds
Equipment measures :	Workplaces storing or handling this material should be equipped with an eyewash facilities and safety shower. Enclose the equipment or install a local exhaust ventilation to prevent exposure.
Protective equipment	
Respiratory protection :	Wear suitable respiratory protection (gas mask (in case of fire: air respirator), dust mask). (Refer to JIS T8151 Particulate respirators, JIS T8152 Gas respirators, JIS T8155 Compressed air open-circuit self-contained breathing apparatus)
Hand protection :	Wear suitable protective gloves. (rubber gloves, etc.) (Refer to JIS T8116 Chemical protective gloves)
Eye protection :	Wear appropriate eye protection (regular glasses, plain glasses with side plates, goggles). (Refer to JIS T8147 Protective Glasses)
Skin and body protection :	Wear protective clothing, and protective shoes, etc. (Refer to JIS T8115 Chemical Protective Clothing, JIS T8117 Chemical Protective Boots)

9. Physical and chemical properties

Physical state :	Needle-like or plate-like crystalline powder
Color :	White
Odor :	Slight acetic acid odor
Melting point/freezing point :	No information
Boiling point, initial boiling point, and boiling range :	No information
Dlammability :	No information
Lower and upper explosion limit / flammability limit :	Solids are not applicable
Flash point :	Solids are not applicable
Aut-ignition temperature :	Solids are not applicable
Decomposition temperature :	No information
pH :	No information
Kinematic viscosity :	Solids are not applicable
Solubility :	Water: 20°C 0.72 g/100ml Water: 80°C 2.52 g/100ml
Partition coefficient: n-octanol / water (log value) :	No information
Vapor pressure :	No information
Density and/or relative density	d ²⁰ 3.26
Relative vapour density :	Solids are not applicable
Particle characteristics	No information

10. Stability and reactivity

Reactivity :	No information
Chemical stability :	It becomes dark color gradually by light.
Possibility of harmful reactions :	No information
Conditions to be avoided :	Light, heat
Incompatible substances :	No information
Hazardous degradable organisms :	Silver, silver oxide, CO ₂

11. Harmfulness information

Acute toxicity	
Oral :	Based on the report that the mouse intraperitoneal LD50 value was 34 mg / kg, but classification is not possible due to lack of data.
Dermal :	Classification is not possible due to lack of data.
Inhalation : Gases	The definition of GHS is a solid.
Inhalation : Vapours	The definition of GHS is a solid.
Inhalation : Dusts and mists	Classification is not possible due to lack of data.

Skin corrosions/irritation :	Classification is not possible due to lack of data.
Serious eye damage/irritation :	Classification is not possible due to lack of data.
Respiratory sensitization :	Classification is not possible due to lack of data.
Skin sensitization :	Classification is not possible due to lack of data.
Germ-cell mutagenicity :	Classification is not possible due to lack of data.
Carcinogenicity :	Classification is not possible due to lack of data.
Reproductive toxicity :	Classification is not possible due to lack of data.
Specific target organ toxicity (single exposure) :	Classification is not possible due to lack of data.
Specific target organ toxicity (repeated exposure) :	Classification is not possible due to lack of data.
Aspiration hazard :	Classification is not possible due to lack of data.

12. Ecological information

Toxicity	
Hazardous to the aquatic environment (acute) :	Classification is not possible due to lack of data.
Hazardous to the aquatic environment (chronic) :	Classification is not possible due to lack of data.
Persistence and degradability :	No information
Bioaccumulative potential :	No information
Mobility in soil :	No information
Hazard to the ozone layer :	The materials concerned are not listed by an affiliated book of Montreal Protocol.

13. Disposal precautions:

Residual waste :	<p>Prior to disposal, treatments such as detoxification, stabilization and neutralization are carried out to the extent possible to reduce the hazard level.</p> <p>Dispose in accordance with relevant laws and local government standards.</p> <p>Outsource to an industrial waste disposal contractor licensed by the prefectural governor, or if a local public entity does the disposal, outsource it there.</p> <p>If outsourcing waste disposal, thoroughly notify the disposal companies of the dangers and harmfulness before outsourcing.</p> <p>Avoid discharging wastewater and washing wastewater containing this substance directly into rivers, or landfill, or dumping.</p>
Dirty containers and packaging :	<p>Suitably process containers according to the relevant regulations and local government standards.</p> <p>When disposing of empty containers, make sure to discard the contents completely.</p>

14. Transport information

International regulations	
UN No. :	No information
Proper shipping name :	No information
Class :	No information
Sub risk :	No information
Packing group :	No information
Marine pollutant (sea) :	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code :	Not applicable
Japanese regulations	
Land regulations information :	Obey poisonous and deleterious substances control act.
Maritime regulations information :	Obey ship safety law regulations.
Aviation regulations information :	Obey the civil aeronautics law.

Special safety measures : Yellow card must be held required during transport.
 Do not transport together with food or livestock feed.
 Do not add heavy goods.
 When transporting, avoid direct sunlight, load containers without damage, corrosion,
 or leakage, and securely prevent collapse of cargo.

15. Regulatory information (Japanese law)

Poisonous and deleterious substances	Deleterious Substances (Article 2-1-24 of cabinet order)
control act :	
PRTR :	Class I designated chemical substance (Appended table 1 105 Silver and its water-soluble compounds.)
Industrial safety and health act :	Dangerous or Harmful Substances Subject to Be Indicated their Names (Article 57 of the act, Article 18 of the Cabinet Order, Appendix Table 9) Dangerous or Harmful Substances Whose Names, etc. Should Be Notified (Article 57-2 of the act, Article 18-2 of the Cabinet Order, Appendix Table 9) Dangerous or Harmful Substances for which a risk assessment should be conducted (Article 57-3 of the act)
Air pollution control act	Hazardous air pollutants (45 of Central environment council 9th report)

* Laws and regulations are examples and do not cover domestic laws and regulations.

16. Other information

References, etc. :	GHS classification results database: NITE website GHS model SDS information: JISHA website Ministry of health, labor and welfare website RTECS:2000 JIS Z7252:2019 JIS Z7253 : 2019 Selection Manual for Protective Equipment for Prevention of Skin Damage, etc. (Ministry of Health, Labour and Welfare Feb.2024)
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*Caution:

Although hazard and harmfulness evaluations are based on the data and information available at the current time, they may not be sufficient.
 Please handle with care.
 Furthermore, the data and evaluations described herein are not in any way guaranteed. The descriptions refer to normal handling.
 Regarding special handling, please handle based on the safety measures which are suitable for the intended applications and methods of use.
 This SDS is an English translation of a document prepared in Japanese in accordance with JIS Z7253:2019.