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Ver.11

Safety Data Sheet Silver Carbonate

1. Product and company information

Product Name : Silver Carbonate
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 : Catalysts, reagents

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 : May be harmful if swallowed.
Causes skin irritation.
Causes eye irritation.

Precautionary statement

Safety measures : Avoid breathing dust/fume/mist.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
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 sope.
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 skin irritation occurs : Get medical advice/attention.
If eye irritation persists : Get medical advice/attention.

Storage : Store locked up.
Disposal : Disposal 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) Carbonate	Ag ₂ CO ₃ (275.75)	534-16-7	1-1016	—	100%

4. First-aid measures

If inhalation : Remove person to fresh air and keep 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 :	Plenty of water, Dry sand
Do not use extinguishing media :	No information
Specific hazards :	This substance is nonflammable and does not burn itself, but can decompose when heated to outbreak harmful gas, so wear protective equipment when firefighting.
Specific fire extinguishing method :	Move the container from the region on fire if there is no danger. 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 leak thing and do not walk inside. Prohibit the entrance except the person concerned.
Environmental precautions :	Avoid discharging into the environment.
Methods and materials for containment and cleaning up :	Wet with water to reduce dust in the air and prevent dispersion. Sweep up any leaks and collect in a sealable empty container for later disposal.
Preventing secondary accidents :	Do a cover of a plastic seat, prevent dispersion.

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 :	Obtain instructions for use before using the product. Do not handle until all safety precautions and readings are understood. Do not eat, drink or smoke when using this product. Do not contact, inhale or swallow. Do not put on the eyes, on skin, or on clothing. Do not inhale dust, fumes, or mist. Wash hands thoroughly after handling. 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 (2025)	0.01mg/m ³ Silver and silver compounds (as Ag)
ACGIH (2024)	0.01mg/m ³ TLV-TWA Silver, and compounds. Soluble compounds, as Ag
Equipment measures :	Workplaces storing or handling this material should be equipped with an eyewash and safety shower. Enclose the equipment or install a local exhaust ventilation to prevent exposure.
Protective Equipment	
Respiratory protection :	Wear suitable respiratory equipment (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 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 :	Crystalline powder
Color :	Light yellow to light green
Odor :	Odorless
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 3mg/100ml Water: 60°C 50mg/100ml
Partition coefficient: n-octanol / water (log value) :	No information
Vapor pressure :	No information
Density and/or relative density	d ²⁰ 6.08
Relative vapour density :	Solids are not applicable
Particle characteristics	No information

10. Stability and reactivity

Reactivity :	No information
Chemical stability :	A stable and non-flammable substance under normal conditions. It becomes dark when exposed to light. In the presence of organic residue, due to light separates silver and discolors.
Possibility of hazardous reactions :	Strong oxidants
Conditions to avoided :	Sunlight, heat
Incompatible materisls :	Strong oxidants
Hazardous decomposition products :	Silver, silver oxide, CO ₂

11. Toxicological information

Acute toxicity	
Oral :	Based on the report that the mouse LD50 value was 3,731 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 corrosios/irritation :	
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. Environmental Impact 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 :	Prior to disposal, treatments such as detoxification, stabilization and neutralization are carried out to the extent possible to reduce the hazard level. Dispose in accordance with relevant laws and local government standards. Outsource to an industrial waste disposal ontractor licensed by the prefectural governor, or if a local public entity does the disposal, outsource it there. If outsourcing waste disposal, thoroughly notify the disposal companies of the dangers and harmfulness before outsourcing. Avoid discharging wastewater and washing wastewater containing this substance directly into rivers, or landfill, or dumping.
Dirty containers and packaging :	Suitably process containers according to the relevant regulations and local government standards. When disposing of empty containers, make sure to discard the contents completely.

14. Transport information

International regulations	
UN No. :	Not applicable
Proper shipping name :	Not applicable
Class :	Not applicable
Sub risk :	Not applicable
Packing group :	Not applicable
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 stack heavy objects.
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 control act : Deleterious Substances (Article 2-1-24 of cabinet order)
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:1997
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)

*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.