SAFETY DATA SHEET

1. IDENTIFICATION
Product name: Silver Behenate
Product code: B0398
Company: TOKYO CHEMICAL INDUSTRY CO., LTD.
Address: 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan
Responsible department: Global Business Department
Telephone: +81-3-5640-8872
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e-mail: globalbusiness@TCIchemicals.com
Revision number: 2

2. HAZARDS IDENTIFICATION
Classification of the substance or mixture
PHYSICAL HAZARDS Not classified
HEALTH HAZARDS
  Acute toxicity (Oral) Category 4
  Acute toxicity (Dermal) Category 4
  Acute toxicity (Inhalation) Category 4
ENVIRONMENTAL HAZARDS Not classified

Label elements
Pictograms or hazard symbols

Signal word Warning
Hazard statements Harmful if swallowed, in contact with skin or if inhaled.

Precautionary statements
[Prevention] Avoid breathing dust, fume, mist, vapors or spray.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wash hands and face thoroughly after handling.
Wear protective gloves, protective clothing.

[Response] IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Substance/mixture: Substance
Components: Silver Behenate
Percent: >95.0%(T)
CAS RN: 2489-05-6
Synonyms: Behenic Acid Silver Salt, Docosanoic Acid Silver Salt, Silver Docosanoate
Chemical Formula: C_{22}H_{43}AgO_2
Notice Through Official Gazettes Reference Number
  ENCS: (2)-614
  ISHL: Official announcement chemistry substance.
4. FIRST-AID MEASURES

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**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:** Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities:**

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents. Light-sensitive

**Packaging material:** Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

**Control parameters:** Not set up

**Personal protective equipment**

**Respiratory protection:** Dust respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:** Protective clothing. Protective boots, if the situation requires.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid
Form: Crystal - Powder
Colour: White - Pale yellow
Odour: No data available
Melting point/freezing point: No data available
Boiling point/range: No data available
Flammability(solid, gas): No data available
Flash point: No data available
Autoignition temperature: No data available
Flammability or explosive limits:
  Lower: No data available
  Upper: No data available
pH: No data available
Kinematic viscosity: No data available
Solubility(ies):
  [Water] No data available
  [Other solvents] No data available
Log Pow: No data available
Relative density: No data available
Vapour density: No data available
Particle characteristics: No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Stable under proper conditions.
Possibility of hazardous reactions: No special reactivity has been reported.
Conditions to avoid: No data available
Incompatible materials: Oxidizing agents
Hazardous decomposition products: Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Germ cell mutagenicity: No data available
Carcinogenicity:
  IARC = No data available
  NTP = No data available
Reproductive toxicity: No data available
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:
  Fish: No data available
  Crustacea: No data available
  Algae: No data available
Persistence / degradability: No data available
Bioaccumulative potential(BCF): No data available
Mobility in soil
  Log Pow: No data available
  Soil adsorption (Koc): No data available
  Henry’s Law (PaM^3/mol): No data available
Other adverse effects: No data available
13. DISPOSAL CONSIDERATIONS
Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION
UN-No: Not listed
Hazards Class: Does not correspond to the classification standard of the United Nations
Specific precautionary transport measures and conditions:

15. JAPANESE REGULATORY INFORMATION
• Not applicable

16. OTHER INFORMATION
The reference company name of written contents
Company: TOKYO CHEMICAL INDUSTRY CO., LTD.
Address: 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan
Department: Global Business Department
Telephone: +81-3-5640-8872
Fax: +81-3-5640-8902

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of “having unknown hazards and toxicity”, which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user’s own responsibility.