

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Silver Perfluorooctanoate

**Product Code:** AG-OMX-04

**CAS Number:** 335-93-3

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

Classification (GHS-US)  
Acute Tox. 4 (Oral)  
H302-Harmful if swallowed  
Skin Irrit. 2  
H315-Causes skin irritation  
Eye Dam. 1  
H318-Causes serious eye damage  
STOT SE 3  
H335-May cause respiratory irritation  
Aquatic Acute 2  
H401- Toxic to aquatic life  
Hazard pictograms



Signal word (GHS-US): Danger

Hazard statements (GHS-US):

H302 -Harmful if swallowed

H315 -Causes skin irritation

H318 -Causes serious eye damage

H335 -May cause respiratory irritation  
H401 -Toxic to aquatic life  
Precautionary statements (GHS-US):  
P261 -Avoid breathing dust, mist, spray  
P264 -Wash skin thoroughly after handling  
P270 -Do not eat, drink or smoke when using this product  
P271 -Use only outdoors or in a well-ventilated area  
P273 -Avoid release to the environment  
P280 -Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312 -If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell  
P302+P352 -If on skin: Wash with plenty of soap and water  
P304+P340 -If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 -If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 -Immediately call a POISON CENTER or doctor/ physician  
P321 -Specific treatment (see supplemental first aid instructions on this label)  
P330 -Rinse mouth  
P332+P313 -If skin irritation occurs: Get medical advice/attention  
P362+P364 -Take off contaminated clothing and wash it before reuse  
P403+P233 -Store in a well-ventilated place. Keep container tightly closed  
P405 -Store locked up  
P501 -Dispose of contents/container to an approved waste disposal plant

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Silver perfluorooctanoate  
CAS No:  
335-93-3

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## **SECTION 4. FIRST AID MEASURES**

### **4.1. Description of first aid measures**

First-aid measures general:

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.

First-aid measures If inhaled:

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.

First-aid measures In case of skin contact:

Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures In case of eye contact:

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/injuries:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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## **SECTION 5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media:

Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.

### **5.2. Special hazards arising from the substance or mixture**

Fire hazard:

Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Silver oxides.

### **5.3. Advice for firefighters**

Firefighting instructions:

In case of fire: Evacuate area.

Protection during firefighting:

Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

General measures:

Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.

#### **6.1.1. For non-emergency personnel**

Emergency procedures: Only qualified personnel equipped with suitable protective equipment may intervene.

#### **6.1.2. For emergency responders**

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### **6.2. Environmental precautions**

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### **6.3. Methods and material for containment and cleaning up**

For containment:

Stop leak if safe to do so.

Methods for cleaning up:

Sweep or shovel spills into appropriate container for disposal.

Minimize generation of dust.

Other information:

For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

### **6.4. Reference to other sections**

No additional information available

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## **SECTION 7. HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures:

Comply with applicable regulations.

Storage conditions:

Keep container closed when not in use.

Incompatible materials:

Refer to Section 10 on Incompatible Materials.

Storage area:

Store in dry, cool, well-ventilated area. Light sensitive

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Protective gloves. 29 CFR 1910.138: Hand Protection.

Eye protection:

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

29 CFR 1910.134: Respiratory Protection.

Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Physical state: Solid

Color: No data available

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting point: No data available

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Relative evaporation rate (butyl acetate=1): No data available

Flammability (solid, gas): No data available

Explosion limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Vapor pressure: No data available  
Relative density: No data available  
Relative vapor density at 20 °C: No data available  
Molecular mass: 520.93 g/mol  
Solubility: No data available  
Log Pow: No data available  
Auto-ignition temperature: No data available  
Decomposition temperature: No data available  
Viscosity: No data available  
Viscosity, Kinematic: No data available  
Viscosity, Dynamic: No data available  
9.2. Other information  
No additional information available

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## **SECTION 10. STABILITY AND REACTIVITY**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Acute toxicity:

Oral: Harmful if swallowed.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitization:

Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

Specific target organ toxicity (single exposure):

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure):

Not classified

Aspiration hazard:  
Not classified

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## **SECTION 12. ECOLOGICAL INFORMATION**

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Waste treatment methods:

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

Waste disposal recommendations:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information:

Recycle the material as far as possible.

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## **SECTION 14. TRANSPORT INFORMATION**

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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## **SECTION 15. REGULATORY INFORMATION**

### 15.1. US Federal regulations

Silver perfluorooctanoate (335-93-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

S -S -indicates a substance that is identified in a proposed or final Significant New Uses Rule.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de

minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

Silver perfluorooctanoate (335-93-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

Silver perfluorooctanoate (335-93-3)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### 15.3. US State regulations

California Proposition 65 -This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.