Section 1: Chemical Product and Company Identification

Cat#: 25093B
Part Name: 2% SILVER NITRATE SOLUTION
Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview
May cause skin, eye and respiratory tract irritation.

GHS Classification
Skin Irritant Cat 2, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Signal word: non-hazard

Hazard and Precautionary Statements

H303 + H313 May be harmful if swallowed, in contact with skin or if inhaled
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280A Wear protective gloves
P285 In case of inadequate ventilation wear respiratory protection.
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P351 Rinse cautiously with water for several minutes.
P501 Dispose of contents/container to proper waste area in accordance with institutional practices and local, state or federal regulations.

NFPA Rating

Hazard Ratings:
These ratings are Polysciences’ Inc. own assesments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health Flammability Reactivity
1 0 0

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

<table>
<thead>
<tr>
<th>Item#</th>
<th>Name</th>
<th>EINECS</th>
<th>CAS#</th>
<th>% in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Silver nitrate</td>
<td>231-853-9</td>
<td>0007761888</td>
<td>0 - 5</td>
</tr>
<tr>
<td>2</td>
<td>Water</td>
<td>231-791-2</td>
<td>0007732185</td>
<td>91 - 100</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
If swallowed, wash out mouth with water if person is conscious.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: no data
Method: no data
UEL: no data
LEL: no data
Autoignition temperature, deg. F.: no data
Flammability Classification: no data
Flame Propagation Rate: no data
Hazardous Combustion Products: no data

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Absorb liquids on absorbent material.
Contain spilled liquids.
The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Use process enclosures, local exhaust ventilation, or other engineering controls.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula:</td>
<td>AgNO₃</td>
</tr>
<tr>
<td>Formula Weight:</td>
<td>169.88</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>100°C</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>0°C</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Miscible</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Clear colorless liquid</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No data</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.08345</td>
</tr>
<tr>
<td>PH:</td>
<td>No data</td>
</tr>
</tbody>
</table>

### Section 10: Stability and Reactivity

Chemical Stabilit: Stable

Conditions to Avoid: No data

Incompatibility with other materials: No data

Hazardous Decomposition Products: No data

Hazardous Polymerization: Will not occur

### Section 11: Toxicological Information

Acute Data: No data

Subchronic data: No data

### Section 12: Ecological Information

No data

### Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Waste Code</th>
<th>Regulated Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0007732185</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>0007761888</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### Section 14: Transportation Data

Proper Shipping Name: NOT REGULATED

Chemical Name:
Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

CAS# | Column A | Column B
---|---|---
0007732185 | no | no
0007761888 | no | no

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#
0007732185 | not listed
0007761888 | not listed

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS# | Column A | Column B
---|---|---
0007732185 | no | no
0007761888 | no | no

Section 16: Other Information

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END OF MSDS