

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : Silver Nitrate, 0.0025N (0.0025M) in Methanol  
Product code : LC22742

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

LabChem Inc  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|                                                                   |      |                                                                      |
|-------------------------------------------------------------------|------|----------------------------------------------------------------------|
| Flammable liquids<br>Category 2                                   | H225 | Highly flammable liquid and vapour                                   |
| Acute toxicity (oral)<br>Category 3                               | H301 | Toxic if swallowed                                                   |
| Acute toxicity (dermal)<br>Category 3                             | H311 | Toxic in contact with skin                                           |
| Acute toxicity<br>(inhalation:dust,mist)<br>Category 3            | H331 | Toxic if inhaled                                                     |
| Reproductive toxicity<br>Category 2                               | H361 | Suspected of damaging fertility or the unborn child                  |
| Specific target organ<br>toxicity (single exposure)<br>Category 1 | H370 | Causes damage to organs (central nervous system, optic nerve) (oral) |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US)



GHS02

GHS06

GHS08

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapour  
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
H361 - Suspected of damaging fertility or the unborn child  
H370 - Causes damage to organs (central nervous system, optic nerve) (oral)

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.

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P260 - Do not breathe mist, spray, vapors.  
P264 - Wash exposed 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.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P311 - Call a POISON CENTER or doctor/physician.  
P330 - If swallowed, rinse mouth.  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P235 - Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to comply with local, state and federal regulations

### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name           | Product identifier  | %     | GHS-US classification                                                                                                                        |
|----------------|---------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Methanol       | (CAS-No.) 67-56-1   | 99.96 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>STOT SE 1, H370         |
| Silver Nitrate | (CAS-No.) 7761-88-8 | 0.04  | Ox. Sol. 2, H272<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/effects after inhalation : Central nervous system depression. Dizziness. Headache. Nausea. Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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|                                                  |                                                                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects upon intravenous administration | : Not available.                                                                                                                          |
| Chronic symptoms                                 | : Affection of the renal tissue. Visual disturbances. Possible inflammation of the respiratory tract. Enlargement/affection of the liver. |

### 4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

### 5.2. Specific hazards arising from the chemical

|                  |                                                   |
|------------------|---------------------------------------------------|
| Fire hazard      | : Highly flammable liquid and vapor.              |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                   |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. |
|------------------|------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                |
|----------------------|------------------------------------------------|
| Protective equipment | : Safety glasses. Protective clothing. Gloves. |
| Emergency procedures | : Evacuate unnecessary personnel.              |

#### 6.1.2. For emergency responders

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection. Avoid breathing mist, spray. |
| Emergency procedures | : Ventilate area.                                                         |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

|                         |                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Handle empty containers with care because residual vapors are flammable.                                                                                                                                                                                                                                                                                                                                                                                      |
| Precautions for safe handling     | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors, spray. |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.                                                                                                                                                                                                                                                                                                                                                              |

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.    |
| Storage conditions     | : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Ignition sources, incompatible materials. Keep in fireproof place. Keep container tightly closed. |
| Incompatible products  | : Strong bases. Strong reducing agents.                                                                                                                                                            |
| Incompatible materials | : Sources of ignition. Direct sunlight. Heat sources.                                                                                                                                              |

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Silver Nitrate (7761-88-8) |                          |            |
|----------------------------|--------------------------|------------|
| ACGIH                      | ACGIH TWA (mg/m³)        | 0.01 mg/m³ |
| OSHA                       | OSHA PEL (TWA) (mg/m³)   | 0.01 mg/m³ |
| IDLH                       | US IDLH (mg/m³)          | 10 mg/m³   |
| NIOSH                      | NIOSH REL (TWA) (mg/m³)  | 0.01 mg/m³ |
| Methanol (67-56-1)         |                          |            |
| ACGIH                      | ACGIH TWA (ppm)          | 200 ppm    |
| ACGIH                      | ACGIH STEL (ppm)         | 250 ppm    |
| OSHA                       | OSHA PEL (TWA) (mg/m³)   | 260 mg/m³  |
| OSHA                       | OSHA PEL (TWA) (ppm)     | 200 ppm    |
| IDLH                       | US IDLH (ppm)            | 6000 ppm   |
| NIOSH                      | NIOSH REL (TWA) (mg/m³)  | 250 mg/m³  |
| NIOSH                      | NIOSH REL (TWA) (ppm)    | 200 ppm    |
| NIOSH                      | NIOSH REL (STEL) (mg/m³) | 325 mg/m³  |
| NIOSH                      | NIOSH REL (STEL) (ppm)   | 250 ppm    |
| NIOSH                      | Remark (NIOSH)           | Skin       |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Gloves. Protective clothing. Safety glasses. Gas mask.



##### Hand protection:

Wear protective gloves.

##### Eye protection:

Chemical goggles or safety glasses

##### Skin and body protection:

Protective clothing

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Gas mask

##### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Appearance                                  | : Liquid.                            |
| Color                                       | : Colourless to light yellow         |
| Odor                                        | : Alcohol odour                      |
| Odor threshold                              | : No data available                  |
| pH                                          | : No data available                  |
| Melting point                               | : -98 °C                             |
| Freezing point                              | : No data available                  |
| Boiling point                               | : 65 °C                              |
| Flash point                                 | : 12 °C                              |
| Relative evaporation rate (butyl acetate=1) | : No data available                  |
| Flammability (solid, gas)                   | : Highly flammable liquid and vapor. |
| Vapor pressure                              | : 97 mm Hg @ 20°C                    |
| Relative vapor density at 20 °C             | : 1.1                                |
| Relative density                            | : No data available                  |
| Specific gravity / density                  | : 0.8 g/cm³                          |
| Solubility                                  | : Soluble in water.                  |
| Log Pow                                     | : No data available                  |
| Auto-ignition temperature                   | : 455 °C                             |
| Decomposition temperature                   | : No data available                  |
| Viscosity, kinematic                        | : No data available                  |
| Viscosity, dynamic                          | : No data available                  |
| Explosion limits                            | : 6 - 31 vol %                       |
| Explosive properties                        | : Not applicable.                    |
| Oxidizing properties                        | : No data available.                 |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Strong reducing agents. Strong bases.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                           |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Likely routes of exposure | : Inhalation; Skin and eye contact                                                                      |
| Acute toxicity            | : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Toxic if inhaled. |

| Silver Nitrate, 0.0025N (0.0025M) in Methanol |                           |
|-----------------------------------------------|---------------------------|
| ATE US (oral)                                 | 100.037 mg/kg body weight |
| ATE US (dermal)                               | 300.12 mg/kg body weight  |
| ATE US (dust, mist)                           | 0.5 mg/l/4h               |

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| Silver Nitrate (7761-88-8)                          |                                                                                                                                                                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                                       | 1173 mg/kg (Rat)                                                                                                                                                 |
| ATE US (oral)                                       | 1173 mg/kg body weight                                                                                                                                           |
| Methanol (67-56-1)                                  |                                                                                                                                                                  |
| LD50 oral rat                                       | 1187 - 2769 mg/kg body weight (BASF test, Rat, Male/female, Weight of evidence)                                                                                  |
| LD50 dermal rabbit                                  | 17100 mg/kg (Rabbit, Inconclusive, insufficient data)                                                                                                            |
| LC50 inhalation rat (mg/l)                          | 128.2 mg/l air (BASF test, 4 h, Rat, Male/female, Weight of evidence)                                                                                            |
| Skin corrosion/irritation                           | : Not classified                                                                                                                                                 |
| Serious eye damage/irritation                       | : Not classified                                                                                                                                                 |
| Respiratory or skin sensitization                   | : Not classified                                                                                                                                                 |
| Germ cell mutagenicity                              | : Not classified                                                                                                                                                 |
| Carcinogenicity                                     | : Not classified                                                                                                                                                 |
| Reproductive toxicity                               | : Suspected of damaging fertility or the unborn child.                                                                                                           |
| Specific target organ toxicity – single exposure    | : Causes damage to organs (central nervous system, optic nerve) (oral).                                                                                          |
| Specific target organ toxicity – repeated exposure  | : Not classified                                                                                                                                                 |
| Aspiration hazard                                   | : Not classified                                                                                                                                                 |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.                            |
| Symptoms/effects after inhalation                   | : Central nervous system depression. Dizziness. Headache. Nausea. Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. |
| Symptoms/effects after skin contact                 | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.                        |
| Symptoms/effects after eye contact                  | : Causes eye irritation.                                                                                                                                         |
| Symptoms/effects after ingestion                    | : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.                                                         |
| Symptoms/effects upon intravenous administration    | : Not available.                                                                                                                                                 |
| Chronic symptoms                                    | : Affection of the renal tissue. Visual disturbances. Possible inflammation of the respiratory tract. Enlargement/affection of the liver.                        |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Silver Nitrate (7761-88-8) |                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1                | 0.006 mg/l (96 h, Salmo gairdneri, Flow-through system)                                                                                    |
| EC50 Daphnia 1             | 0.0006 mg/l (48 h, Daphnia magna)                                                                                                          |
| Methanol (67-56-1)         |                                                                                                                                            |
| LC50 fish 1                | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value)                           |
| EC50 Daphnia 1             | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value)     |
| ErC50 (algae)              | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value) |

### 12.2. Persistence and degradability

| Silver Nitrate, 0.0025N (0.0025M) in Methanol |                                   |
|-----------------------------------------------|-----------------------------------|
| Persistence and degradability                 | Not established.                  |
| Silver Nitrate (7761-88-8)                    |                                   |
| Persistence and degradability                 | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)               | Not applicable                    |
| Chemical oxygen demand (COD)                  | Not applicable                    |
| ThOD                                          | Not applicable                    |
| BOD (% of ThOD)                               | Not applicable                    |

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| Methanol (67-56-1)              |                                                            |
|---------------------------------|------------------------------------------------------------|
| Persistence and degradability   | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 - 1.12 g O <sub>2</sub> /g substance                   |
| Chemical oxygen demand (COD)    | 1.42 g O <sub>2</sub> /g substance                         |
| ThOD                            | 1.5 g O <sub>2</sub> /g substance                          |

### 12.3. Bioaccumulative potential

| Silver Nitrate, 0.0025N (0.0025M) in Methanol |                  |
|-----------------------------------------------|------------------|
| Bioaccumulative potential                     | Not established. |

| Silver Nitrate (7761-88-8) |                                                |
|----------------------------|------------------------------------------------|
| BCF fish 1                 | 11 - 19 (Micropterus salmoides, Chronic)       |
| BCF fish 2                 | 15 - 150 (Lepomis macrochirus, Chronic)        |
| Log Pow                    | 0.19 (Estimated value)                         |
| Bioaccumulative potential  | Low potential for bioaccumulation (BCF < 500). |

| Methanol (67-56-1)        |                                                                                 |
|---------------------------|---------------------------------------------------------------------------------|
| BCF fish 1                | 1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Log Pow                   | -0.77 (Experimental value)                                                      |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500).                                  |

### 12.4. Mobility in soil

| Methanol (67-56-1) |                                           |
|--------------------|-------------------------------------------|
| Surface tension    | 0.023 N/m (20 °C)                         |
| Log Koc            | -0.89 - -0.21 (log Koc, Calculated value) |
| Ecology - soil     | Highly mobile in soil.                    |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1993 Flammable liquids, n.o.s., 3, II

UN-No.(DOT) : UN1993

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Symbols : G - Identifies PSN requiring a technical name

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|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102)                          | : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.<br>T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.<br>TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).<br>TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 60 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DOT Vessel Stowage Location                                      | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Other information                                                | : No supplementary information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Silver Nitrate, 0.0025N (0.0025M) in Methanol

|                                     |                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------|
| SARA Section 311/312 Hazard Classes | Fire hazard<br>Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|-----------------------------------------------------------------------------------|

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|          |                 |        |
|----------|-----------------|--------|
| Methanol | CAS-No. 67-56-1 | 99.96% |
|----------|-----------------|--------|

#### Silver Nitrate (7761-88-8)

|                                                              |      |
|--------------------------------------------------------------|------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1 lb |
|--------------------------------------------------------------|------|

#### Methanol (67-56-1)

|                                                              |                                                                                                                                                                                                             |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb                                                                                                                                                                                                     |
| SARA Section 311/312 Hazard Classes                          | Physical hazard - Flammable (gases, aerosols, liquids, or solids)<br>Health hazard - Acute toxicity (any route of exposure)<br>Health hazard - Specific target organ toxicity (single or repeated exposure) |

### 15.2. International regulations

#### CANADA

##### Silver Nitrate (7761-88-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

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### Silver Nitrate (7761-88-8)

Listed on the Canadian IDL (Ingredient Disclosure List)

### 15.3. US State regulations

This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Methanol (67-56-1)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|
| No                                                    | Yes                                                         | No                                                                  | No                                                                |                                  |

## SECTION 16: Other information

Revision date : 02/20/2018

Other information : None.

Full text of H-phrases: see section 16:

|      |                                                      |
|------|------------------------------------------------------|
| H225 | Highly flammable liquid and vapour                   |
| H272 | May intensify fire; oxidizer                         |
| H301 | Toxic if swallowed                                   |
| H302 | Harmful if swallowed                                 |
| H311 | Toxic in contact with skin                           |
| H314 | Causes severe skin burns and eye damage              |
| H318 | Causes serious eye damage                            |
| H331 | Toxic if inhaled                                     |
| H361 | Suspected of damaging fertility or the unborn child  |
| H370 | Causes damage to organs                              |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

NFPA health hazard

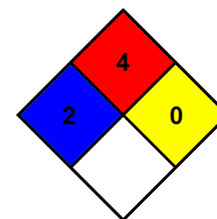
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: H  
H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

# Silver Nitrate, 0.0025N (0.0025M) in Methanol

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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