

MATERIAL SAFETY DATA SHEET

Silver Nitrate Solution 0.01 N in Isopropanol

SECTION 1 . Product and Company Identification

Product Name and Synonym: Silver Nitrate Solution 0.01 N in Isopropanol

Product Code: 8375

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 6/19/2013

Print Date: 6/19/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

| | |
|---------------|---|
| Health: | 2 |
| Flammability: | 3 |
| Reactivity: | 0 |

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

| SARA 313 | Component | CAS Number | Percent Comp. | Dimension | Exposure Limits |
|-------------------------------------|--------------------------------|----------------|---------------|-----------|--------------------------------------|
| <input checked="" type="checkbox"/> | Isopropyl Alcohol (2-propanol) | CAS# 67-63-0 | Balance | V/V | OSHA TWA 400 ppm, STEL 500 ppm |
| <input type="checkbox"/> | Silver Nitrate | CAS# 7761-88-8 | 0.17% | W/V | OSHA PEL 0.01 mg(Ag)/mf |
| <input type="checkbox"/> | Water, Deionized ASTM Type II | CAS# 7732-18-5 | 0.8% | V/V | None Established |

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, dry chemical, carbon dioxide, alcohol foam

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Fire / Explosion Hazards: FLAMMABLE! Vapor air mixtures are explosive within flammable limits noted. Vapors may travel to distant ignition source and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

SECTION 7 HANDLING AND STORAGE

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Organic Vapor Cartridge

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|-----------------------------------|-----------------------------|--------|
| Melting Point: | ~-89°C | Percent Volatile by Volume: | >99 |
| Boiling Point: | ~82°C | Evaporation Rate | ~1.7 |
| Vapor Pressure: | ~33 mm Hg @ 25°C | Evaporation Standard | |
| Vapor Density: | ~2.1 (air=1) | Auto Ignition Temp | ~399°C |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | ~2.0% |
| Appearance /Odors: | Clear colorless liquid/ mild odor | Upper Flamm. Limit in Air | ~12.0% |
| Flash Point: | ~12°C closed up | | |
| Specific Gravity: | .79 | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid heat and ignition sources

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Materials to Avoid: Strong oxidizers, metals, strong bases, amines
Hazardous Decomposition Products: Carbon Oxides
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: UN1993, Flammable Liquid, n.o.s. (Isopropanol), 3, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory disorders may be more susceptible. Acute: Irritation to skin, eyes, lungs, mucous membranes and GI tract, nausea, narcosis, drowsiness, dizziness. Chronic: Dermatitis, eye damage. Skin discoloration occurs with contact.

Flammability

Health

Reactivity

Revisions

NFPA

0.4

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