

SAFETY DATA SHEET

Version: 4.0
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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: LI Silver™
Product Number: 2013-250ML

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Relevant identified uses

Laboratory chemicals

Uses advised against

Not for drug use

1.3 Details of the supplier of the safety data sheet

Company: Nanoprobes
Address: 95 Horseblock Road, Unit 1
Yaphank, NY 11980
United States
Technical Phone: 877-447-6266, +1 (631) 205-9490
Fax: +1 (631) 205-9493
Emergency Phone: +1 (631) 205-9490
Web Site: www.nanoprobes.com

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

LI Silver™ - Enhancer

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acetonitrile: Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 4), H312 Eye
irritation (Category 2A), H319

2.2 GHS Label elements

GHS Signal Word- Warning

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

none

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture****Hazardous components** : Mixture of the substances listed below with non-hazardous additions**LI Silver™ - Enhancer (Solution A)**

Component	Concentration and Volume
Acetonitrile	
CAS-No. 75-05-8 EC-No. 200-835-2 Index-No. 608-001-00-3	2.0% (w/v) in 125 mL of LI Silver™ - Enhancer
Silver Acetate	
CAS-No. 563-63-3 EC-No. 209-254-9 Index-No. Not assigned	0.2% (w/v) in 125 mL of LI Silver™ - Enhancer

Hazard Class	Category	Hazard Statement
Acute Aquatic Toxicity	Category 1	H400: Very toxic to aquatic life
Chronic Aquatic Toxicity	Category 1	H410: Very toxic to aquatic life with long lasting effects
Serious Eye Irritation	Category 2A	H319: Causes serious eye irritation
Acute Toxicity (Oral/Dermal/Inhal)	Category 4	H302+H312+H332: Harmful if swallowed, in contact with skin, or if inhaled

LI Silver™ - Initiator (Solution B)

Component	Concentration and Volume
Hydroquinone	
CAS-No. 123-31-9 EC-No. 204-617-8 Index-No. 604-005-00-4	0.5% (w/v) in 125 mL of LI Silver™ - Initiator
Citric Acid (as monohydrate)	
CAS-No. 5949-29-1 EC-No. 201-069-1 Index-No. Not assigned	2.1% (w/v) in 125 mL of LI Silver™ - Initiator

Hazard Class	Category	Hazard Statement
Serious Eye Damage	Category 1	H318: Causes serious eye damage
Skin Sensitization	Category 1	H317: May cause an allergic skin reaction
Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects
Carcinogenicity	Category 2	H351: Suspected of causing cancer
Aquatic Toxicity (Acute)	Category 1	H400: Very toxic to aquatic life

No other ingredients are hazardous according to OSHA criteria. No other components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Oral exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal exposure

In case of skin contact, wash off with soap and plenty of water.

Eye exposure

In case of eye contact, flush eyes with water as a precaution.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed. Recommended storage temperature: 2-8°C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls****Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- a) **Appearance Form:** clear liquid
- b) **Odor** no data available
- c) **Odor Threshold** no data available
- d) **pH:** no data available
- e) **Melting point/freezing point** 0°C/100°C
- f) **Initial boiling point and boiling range** no data available
- g) **Flash point** no data available
- h) **Evaporation rate** no data available
- i) **Flammability** no data available
- j) **Upper/lower flammability or explosive limits** no data available
- k) **Vapour pressure** no data available
- l) **Vapour density** no data available
- m) **Relative density** no data available
- n) **Solubility** Soluble in water
- o) **Partition coefficient** no data available
- p) **Auto-ignition temperature** no data available
- q) **Decomposition temperature** no data available
- r) **Viscosity** no data available
- s) **Explosive properties** no data available
- t) **Oxidizing properties** no data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY**10.1 Reactivity**

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Thiols and strong oxidizing agents

10.6 Hazardous decomposition products In the event of fire

see section 5

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information Repeated dose toxicity

No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302****Components SARA 302**

This material does not contain any chemical components with known CAS numbers that The following components are subject to reporting levels established by SARA Title III, Section 302:

SARA 313**Components SARA 313**

The following components are subject to that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Chemical Name	CAS-No.	Weight %	Sara 313 - de minimis % Limit
Acetonitrile	75-05-8	2.0	1.0

Massachusetts Right to Know Components

Chemical Name	CAS-No.	Weight %	Massachusetts Right to Know % threshold
Acetonitrile	75-05-8	2.0	1.0%

Pennsylvania Right to Know Components

Chemical Name	CAS-No.	Weight %	Pennsylvania Right to Know % threshold
Acetonitrile	75-05-8	2.0	1.0
Citric Acid	5949-29-1	2.1	1.0

California Prop. 65 Components

This product does not contain any chemicals with specific reporting concentration thresholds known to State of California to cause cancer, birth defects, or any other reproductive harm.

16 Other Information**Kit Components:**

LI Silver™ - Initiator: 125 mL
LI Silver™ - Enhancer: 125 mL

DISCLAIMER

For R&D use only. Not for drug, household or other uses. Hazard information for mixtures and reporting requirements partially generated by AI search.

WARRANTY

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. Nanoprobes Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.