

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Number: CS1-0109-5ML, CS1-0109-1ML

Product Name: PI Staining Solution

Supplier: Nexcelom Bioscience, LLC.

360 Merrimack St. Lawrence, MA 01843

Section 2: Composition/Information on Ingredients

Formula	C ₂₇ H ₃₄ I ₂ N ₄		
		Index-	
CAS-No.	EC-No.	No.	Concentration
3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-			
phenylphenanthridinium diiodide			
25535-16-4	247-081-0		>= 0.1 - <= 30 %
Water			
7732-18-5	231-791-2		>= 70 - <= 99.9 %

Section 3: Hazard Identification

- a. Emergency Overview
 - i. OSHA Hazards
 - ii. Irritant, Mutagen
- b. HMIS Classification
 - i. Health hazard: 0
 ii. Chronic Health Hazard: *
 iii. Flammability: 0
 iv. Physical hazards: 0
- c. NFPA Rating
 - i. Health hazard: 0ii. Fire: 0iii. Reactivity Hazard: 0
- d. Potential Health Effects
 - i. Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
 - ii. Skin May be harmful if absorbed through skin. May cause skin irritation.
 - iii. Eyes May cause eye irritation.
 - iv. Ingestion May be harmful if swallowed.
- e. Precautionary statement(s)
 - i. Avoid breathing dust/fume/gas/mist/vapors/spray.
 - ii. Wash skin thoroughly after handling.
 - iii. Use only outdoors or in a well-ventilated area.

If you have any further questions about this Material Safety Data Sheet, please contact us.

Nexcelom Bioscience | 360 Merrimack Street, Bldg 9 | Lawrence, MA 01843

T: 978.327.5340 | F: 978.327.5341 | E: info@nexcelom.com | www.nexcelom.com

- iv. Wear protective gloves/eye protection/face protection.
- v. IF ON SKIN: Wash with plenty of soap and water.
- vi. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- vii. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- viii. Call a POISON CENTER or doctor/physician if you feel unwell.
- ix. Specific treatment (see supplemental first aid instructions on this label).
- x. If skin irritation occurs: Get medical advice/attention.
- xi. If eye irritation persists: Get medical advice/attention.
- xii. Take off contaminated clothing and wash before reuse.
- xiii. Store in a well-ventilated place. Keep container tightly closed.
- xiv. Store locked up.
- xv. Dispose of contents/container to an approved waste disposal plant.

Section 4: First Aid Measures

General Consult a physician. Show this safety data sheet to the doctor in attendance.

Advice: Move out of dangerous area.

If Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In Case of Skin

Contact:

Wash off with soap and plenty of water. Consult a physician.

In Case of Eye

Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Section 5: Fire Fighting Measures

Flammable Flash point – no data available

Properties: Ignition temperature – no data available

Suitable Extinguishing

Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Fire-Fighters: Wear self-contained breathing apparatus for fire-fighting if necessary.

Section 6: Accidental Release Measures

Personal Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

Precautions: Ensure adequate ventilation.

Environmental

Precautions:

Do not let product enter drains.

Methods and

Pick up and arrange disposal without creating dust. Keep in suitable, closed

Materials for containers for disposal.

Containment



and Cleaning:

Section 7: Handling and Storage

Precautions for Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide

Safe Handling: appropriate exhaust ventilation at places where dust is formed. Normal measures

for preventative fire protection.

Conditions for Protect against light. Keep container tightly closed in a dry and well-ventilated

Safe Storage: pace. Store at 2-8°C. Light Sensitive. Hygroscopic.

Section 8: Exposure Controls and Personal Protection

Contains no substances with occupational exposure limit values.

Respiratory Where risk assessment shows air-purifying respirators are appropriate use a dust

Protection: mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components

tested and approved under appropriate government standards such as NIOSH (US)

or CEN (EU).

Hand Handle with gloves.

Protection:

Eye Protection: Safety glasses with side-shields conforming to EN166.

Skin and Body Choose body protection according to the amount and concentration of the

Protection: dangerous substance at the work place.

Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash

Measures: hands before breaks and at the end of the workday.

Section 9: Physical and Chemical Properties

Appearance

Form: Liquid

Color: Light Orange

Safety Data

pH: No data available

Melting Point: No data available
Boiling Point: No data available

Flash Point: No data available Ignition No data available

Temperature:

Lower Explosion No data available

Limit:

Upper Explosion No data available

Limit:

Water Solubility: No data available

Section 10: Stability and Reactivity

Storage Stability: Stable under recommended storage conditions.

Conditions to

Avoid:

No data available

Materials to

Avoid:

Strong oxidizing agents

Hazardous Decomposition Hazardous decomposition products formed under fire conditions. – Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

Products:

Section 11: Toxicological Information

Acute Toxicity: LD50 Subcutaneous – mouse – 16 mg/kg

Skin
Corrosion/Irritation:

No data available

Serious Eye

Damage/Irritation:

No data available

Respiratory or Skin

Sensitization:

No data available

Germ Cell Mutagenicity: Laboratory results have shown mutagenic effects.

Chronic Exposure: IA

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 probable, possible, or confirmed human carcinogen by

ACGIH.

NTP: 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 NTP. OSHA: 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

OSHA.

Reproductive Toxicity:

No data available

Specific Target Organ Toxicity – Single Exposure: Inhalation – may cause respiratory irritation

Aspiration Hazard: No data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful is swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.



Eyes: Causes eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity: No data available

Persistance and Degradability:

No data available

Bioaccumulative

Potential:

No data available

Mobility in Soil:

No data available

PBT and vPvB

Assessment:

No data available

Other Adverse

Affects:

No data available

Section 13: Disposable Considerations

Product: Observe all federal, state, and local environmental regulations. Contact a

licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator

equipped with an afterburner and scrubber.

Contaminated

Packaging:

Dispose of as unused product.

Section 14: Transport Information

DOT (US): Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Section 15: Regulatory Information

OSHA Hazards: Irritant, Mutagen

DSL Status: This product contains the following components that are not on the Canadian DSL

nor NDSL lists:

3, 8-Diamino-5-[3-diethylmethylammonio)propyl]-6-phenylphenanthridium diiodide

CAS-No. 25535-16-4

This product contains the following components that are on the Canadian DSL nor

NDSL lists:

N, N, N', N'-Tetramethylacridin-3, 6-yldiamine hydrochloride

CAS-No. 65-61-2

SARA 302 SARA 302: No chemicals in this material are subject to the reporting requirements



Components: of SARA Title III, Section 302.

SARA 313 SARA 313: This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels established Components:

by SARA Title III, Section 313.

SARA 311/312

Hazards:

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know

No Components Listed

Components: Pennsylvania

3, 8-Diamino-5-[3-diethylmethylammonio)propyl]-6-phenylphenanthridium diiodide

CAS-No. 25535-16-4 Right to Know

Water Components:

CAS-No. 7732-18-5

3, 8-Diamino-5-[3-diethylmethylammonio)propyl]-6-phenylphenanthridium diiodide New Jersey

CAS-No. 25535-16-4 Right to Know

Water Components:

CAS-No. 7732-18-5

N, N, N', N'-Tetramethylacridin-3, 6-yldiamine hydrochloride

CAS-No. 65-61-2

California Prop.

This product does not contain any chemicals known to the State of California to

cause cancer, birth defects, or any other reproductive harm.

Components:

65

Section 16: Other Information

Copyright 2014 Nexcelom Bioscience License to make unlimited paper copies for internal use only. 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. Nexcelom Bioscience, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packaging slip for additional terms and conditions of sale.

END OF MSDS

