

Safety Data Sheet (SDS)

Section 1: Identification

- **Chemical Name:** Lithium Nitrite Monohydrate
- **CAS Number:** 13453-77-5
- **Chemical Formula:** $\text{LiNO}_2 \cdot \text{H}_2\text{O}$
- **Manufacturer/Supplier:**

Heeger Materials Inc.

230 Steele St Denver

CO 80206

United States

Tel: 925-385-8104

Section 2: Hazard Identification

- **Hazards:** May cause skin irritation, eye irritation, and respiratory irritation if inhaled.
- **Health Hazards:** May be harmful if ingested.
- **Environmental Hazards:** May be harmful to aquatic life with prolonged exposure.
- **Pictograms:**
 - Health Hazard
 - Environmental Hazard

Section 3: Composition/Information on Ingredients

- **Chemical Name:** Lithium Nitrite Monohydrate
- **CAS Number:** 13453-77-5
- **Concentration:** 100%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash exposed skin with soap and water.
- **Eye Contact:** Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice immediately.

Section 5: Fire-fighting measure

- **Extinguishing Media:** Use appropriate extinguishing agents for surrounding fire.
- **Special Firefighting Procedures:** Wear self-contained breathing apparatus when fighting fires involving this material.
- **Hazardous Combustion Products:** Toxic fumes, including nitrogen oxides.

Section 6: Accidental Release Measures

- **Personal Precautions:** Wear appropriate protective equipment including gloves, goggles, and respiratory protection.
- **Environmental Precautions:** Prevent from entering drains and waterways.
- **Clean-up Procedures:** Sweep up spill and collect in a suitable container. Dispose of properly.

Section 7: Handling and Storage

- **Handling Precautions:** Avoid contact with skin and eyes. Store in a cool, well-ventilated area.
- **Storage Conditions:** Keep container tightly closed. Store away from incompatible materials (strong acids, oxidizers).

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Use local exhaust ventilation when necessary.
- **Personal Protective Equipment:** Wear appropriate gloves, safety goggles, and laboratory coat.

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline solid
- **Odor:** Odorless
- **Melting Point:** Decomposes before melting
- **Solubility in Water:** Highly soluble
- **Density:** [Density value] g/cm³

Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Strong acids, oxidizing agents
- **Hazardous Reactions:** May react violently with strong acids, producing toxic gases.

Section 11: Toxicological Information

- **Acute Toxicity:** May be harmful if ingested.
- **Skin Irritation:** May cause skin irritation.
- **Eye Irritation:** May cause eye irritation.

Section 12: Ecological Information

- **Environmental Hazards:** May be harmful to aquatic life with prolonged exposure.

Section 13: Disposal Considerations

- **Waste Disposal:** Dispose of according to local regulations. Consult with a qualified waste disposal company.

Section 14: Transport Information

- **UN Number:** [UN number if applicable]
- **Transport Class:** [Transport class if applicable]
- **Packing Group:** [Packing group if applicable]

Section 15: Regulatory Information

- **Relevant Regulations:** [List applicable regulations]

Section 16: Other Information

- **Revision Date:** [Date of revision]

Please note that this SDS is a general guideline and may need to be adjusted based on specific product characteristics and local regulations. Always consult with the manufacturer for the most accurate information.