Section 1. Product and Company Identification

Product Name 4-bromo-A23187
Product ID A0101
Chemical Name (Synonyms) 4-Bromo-A-23187, 4-BrA23187, 4-Bra23187
Supplier LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com

Emergency Phone # 1-800-424-9300

Section 2. Hazards Identification

GHS Classification
Acute Toxicity, Oral (Category 4) H302
Acute Toxicity, Skin (Category 4) H312
Skin Corrosion/Irritation (Category 2) H315
Serious Eye Damage/ Eye Irritation (Category 2) H319
Acute Toxicity, Inhalation (Category 4) H332
Specific Target Organ Toxicity, Single Exposure (Category 3) Respiratory system, H335

GHS Label elements including precautionary statements

Pictogram
Signal word Warning
Hazard and precautionary statements
Hazard statements:
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation
Precautionary statements:
P261 - Avoid breathing dust, fumes, gas, mist, vapors, spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P330 - Rinse mouth.
P332 + P313 - If skin irritation occurs, get medical advice/attention.
P337 + P313 - If eye irritation persists, get medical advice/attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.

HMIS Classification
Health hazard: 2
Chronic health hazard: 0
Flammability: 0
Physical hazard: 0

NFPA Rating
Health hazard: 2
Fire hazard: 0
Reactivity hazard: 0

Potential Health Effects
Inhalation - Acute toxicity. May be harmful if inhaled. May cause respiratory tract irritation.
Skin - Acute toxicity. May be harmful if contact with skin. May cause skin irritation.
Eyes - May cause serious eye irritation.
Ingestion - Acute toxicity. Harmful if swallowed.

Section 3. Composition/Information on Ingredients

<table>
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<tr>
<th>Substances</th>
<th>Ingredient: Title Compound</th>
<th>Percent: 100</th>
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<tr>
<td>Formula</td>
<td>C_{29}H_{36}BrN_{3}O_{6}</td>
<td>602.52</td>
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<tr>
<td>CAS No.</td>
<td>76455-48-6</td>
<td>EC No.</td>
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Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact
Flush eyes with water as a precaution.

Skin Contact
Wash off with soap and plenty of water.

Inhalation
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Flash Point
Not available.

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

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

Unusual Fire Hazards
Carbon oxides, nitrogen oxides (NOx).

Section 6. Accidental Release Measures

Personal Precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

Environmental Precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 4°C

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), hydrogen bromide gas and sodium oxides.

Other Remarks
Avoid direct light.
Section 8. Exposure Controls/Personal Protection

**Personal protective equipment**

- **EXPOSURE CONTROLS**
  - Contains no substances with occupational exposure limit values.
  - General industrial hygiene practice.

- **PERSONAL PROTECTION**
  - **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:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. 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 is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

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<th>Physical State</th>
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<td>Slight yellow crystals.</td>
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<table>
<thead>
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<th>Physical State</th>
<th>Color</th>
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<th>Evaporation rate</th>
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</table>

Section 10. Stability and Reactivity

**Stability**

- Stable under recommended storage conditions.

**Materials To Avoid**

- Strong oxidizing agents.

**Hazardous Decomposition Products**

- Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), hydrogen bromide gas and sodium oxides.
Section 11. Toxicological Information

**Oral LD50** Not available. **Skin corrosion/irritation** Not available.

**Inhalation LC50** Not available. **Serious eye damage/irritation** Not available.

**Dermal LD50** Not available. **Respiratory or skin sensitization** Not available.

**Other information on acute toxicity** Not available. **Germ cell mutagenicity** Not available.

**Reproductive Toxicity** Not available. **Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Not available. **Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available. **Additional Information** Not available.

**Teratogenicity** Not available. **Signs and symptoms of exposure** Not available.

**Potential Health Effects** Inhalation - Acute toxicity. May be harmful if inhaled. May cause respiratory tract irritation. Skin - Acute toxicity. May be harmful if contact with skin. May cause skin irritation. Eyes - May cause serious eye irritation. Ingestion - Acute toxicity. Harmful if swallowed.

**Carcinogenicity** 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.

Section 12. Ecological Information

**Toxicity** Not available. **Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not available.
Section 13. Disposal Considerations

Waste Disposal
Dispose of material according to all federal, state and local regulations.
Offer material to a licensed, professional waste disposal company to dispose of as unused product.

Section 14. Transport Information

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

Further Information

Section 15. Regulatory Information

Reach No.
SARA 302 Components  SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components  SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Components  No SARA hazards.

Massachusetts Right To Know Components  No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components  4-bromo-A23187  CAS #: 76455-48-6  Revision Date:
New Jersey Right To Know Components  4-bromo-A23187  CAS #: 76455-48-6  Revision Date:
California Prop 65 Components  This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information  The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.