



# Material Safety Data Sheet Levetiracetam Injection

Effective Date: 08-03-2011

Review Date: N/A

## Section 1: Chemical Product and Company Identification

**Product Name:** Levetiracetam Injection

**Chemical Name(s):** (S)-2-(2-oxopyrrolidin-1-yl)butanamide

**CAS Number:** 102767-28-2

**RTECS #:** n/f

**Trade Name:** Levetiracetam Injection

**Formula:** C<sub>8</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

**M.W.:** 170.21

**Indication:** Anti-convulsant

**Distributor:**

X-Gen Pharmaceuticals Inc.

PO Box 445, Big Flats, NY 14814

**Technical Assistance:** 607-562-2700

## Section 2: Hazards Identification

**Emergency overview:** Not considered hazardous when handled under normal conditions with good housekeeping.

**Principle routes of exposure:** Injection.

**Inhalation:** Harmful by inhalation

**Ingestion:** Harmful if swallowed

**Skin contact:** Harmful if in contact with skin

**Eye contact:** n/f.

## Section 3: Composition Information

**Principle Components:**

**CSA #:**

Levetiracetam

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#### Section 4: First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Skin contact:** Wash skin thoroughly with soap and copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

**Ingestion:** If swallowed, wash out mouth with water, provided person is conscious. Seek medical advice.

**Eye contact:** Immediately flush eyes with copious amounts of water for at least 15 minutes. Seek medical advice.

**Notes to physician:** n/f

#### Section 5: Fire Fighting Measures

**Flash Point:** n/f

**Upper Flammable Limit:** n/f

**Auto-Ignition Temperature:** n/f

**Lower Flammable Limit:** n/f

**Extinguisher Media:** Carbon dioxide, dry chemical powder or appropriate foam. Water spray.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with the skin and eyes.

**Unusual Fire and Explosion Hazards:** Emits toxic fumes under fire conditions.

#### Section 6: Accidental Release Measures

**Personnel Precautions:** Keep unnecessary personnel away.

**Environmental Precautions:** n/f

**Spill Response:** Ensuring personal safety, mark out contaminated area with signs and prevent unauthorized access. Turn leaking containers up to prevent further Evacuate area. Wear self-contained breathing apparatus, rubber boots and heavy gloves. Sweep-up/absorb in suitable material, place in a container and hold for disposal. Avoid raising dust. Ventilate area and wash spill site after pick-up complete.

#### Section 7: Handling and Storage

**Handling:** n/f

**Storage:** Store under the following conditions: Store in a dry and dark place.

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## Section 8: Exposure Controls / Personal Protection

**Engineering Measures:** n/f

**Personnel Protective Equipment:** See below

**Respiratory Protection:** Dust respirator. Be sure to use an approved/certified respirator or equivalent.

**Gloves:** Yes

**Eye Protection:** Safety glasses

**Protective Clothing:** Lab coat

## Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Specific Gravity:** n/f

**Appearance:** Liquid

**Color:** Clear liquid.

**Odor:** Odorless

**pH:** Between 5.0 and 6.0

**Melting Point:** n/f

**Evaporation rate:** n/f

**Boiling Point:** n/f

**Solubility in water:** 100%

**Vapor Density:** n/f

**Viscosity:** n/f

**% Volatile by volume:** n/f

## Section 10: Stability and Reactivity

**Stability:** Stable

**Incompatibility:** n/f

**Hazardous Decomposition or Byproducts:** n/f

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Excess heat, excess dust generation, incompatible materials, moisture.

## Section 11: Toxicological Information

**Acute toxicity:** n/f

LD50 (mice) >1g/kg i.v.

**Chronic toxicity:** n/f

**Carcinogenic effects:** n/f

**Mutagenic effects:** n/f

**Reproductive toxicity:** n/f

**FDA Pregnancy Category:** n/f

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**Section 12: Ecological Information**

**Environmental properties:** n/f

**Ecotoxicity effects:** n/f

**Bioaccumulation:** n/f

Do not allow product to enter drinking water supplies, waste water or soil.

**Section 13: Disposal Information**

**Waste classification:** Not regulated

**Waste from residues/unused products:**

Dissolve or mix material with suitable combustible solvent and incinerate in a chemical incinerator equipped with an afterburner and scrubber.

Dispose of waste in accordance with all applicable Federal, State and local regulations.

**Section 14: Transport Information**

**DOT:**

**DOT shipping name:** n/f  
**UN Number:** n/f  
**DOT Packing Group:** n/f  
**DOT Hazard class:** n/f

**TDG (Canada):**

**TDG Proper shipping name:** n/f  
**TDG UN/NA Number:** n/f  
**TDG Packing Group:** n/f  
**TDG Hazard class:** n/f

**ADR/RID:**

**ADR Official Transport Name:** n/f  
**ADR Proper shipping name:** n/f  
**ADR UN/NA number:** n/f  
**ADR Hazard Class:** n/f

**ICAO / IATA:**

**IATA Proper shipping name:** n/f  
**IATA UN NUMBER:** n/f  
**IATA Primary Hazard:** n/f  
**IATA Packing group:** n/f  
**ICAO ERG Code:** n/f

**IMO / IMDG:**

**IMDG Proper Shipping Name:** n/f  
**IMDG Hazard Class and Division:** n/f  
**IMDG Packing Group:** n/f  
**IMDG Subsidiary Risks:** n/f

**Section 15: Regulatory Information**

n/f = not found

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**U.S. Regulations:** n/f

**TSCA Inventory List:** n/f

**State Regulations:** n/f

**Canadian Regulations:** n/f

**Canada DSL Inventory List:** n/f

**EU EINECS List:** n/f

**Other Regulations:** n/f

**Other Classifications:**

**SARA 313 listed?** No **CERCLA listed?** No **RCRA listed?** n/f

**Risk Phrases:** n/f

**Safety phrases:** n/f

<b>Section 16:</b>	<b>Other Information</b>
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**Additional information:**

Use of this product should be through or under the direction of a physician. This MSDS does not address therapeutic use of this material.

The information is believed to be accurate and represents the best information currently available to us. X-GEN Pharmaceuticals, Inc. makes no warranties, express or implied with respect to such information, and we assume no liability resulting from its use.

**Prepared by:** X-GEN Pharmaceuticals Inc., Safety Committee