



## Material Safety Data Sheet

Date of Issue: 8/14/2012

### 1. Chemical Identification

<b>Product name</b>	<b>Glatiramer acetate</b>
<b>Cas No.</b>	147245-92-9
Chemical formula	C <sub>25</sub> H <sub>45</sub> N <sub>5</sub> O <sub>13</sub>

### 2. Composition / information on ingredients

<b>Molecular Weight</b>	623.65
Molecular Formula	C <sub>25</sub> H <sub>45</sub> N <sub>5</sub> O <sub>13</sub>
<b>Sequence</b>	L-Glutamic acid polymer with L-alanine, L-lysine and L-tyrosine, acetate (salt)

### 3. Hazards identification

**CAUTION:** May be harmful to skin and eyes if swallowed, inhaled or absorbed through skin. The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

### 4. First-aid measures

**If swallowed :** Give large quantities of water to drink and get medical attention immediately, never give anything by mouth to an unconscious person. Call a physician.

**In case of skin contact:** Wash exposed area with soap and water. Call a physician if irritation develops.

**If inhaled:** Remove to fresh air. If breathing becomes difficult, call a physician.

**If Contact with eye:** Flush with copious amounts of water at least 15 minutes, Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### 5. Fire-fighting measures

Extinguishing Media:

carbon dioxide, dry chemical powder or appropriate form.

Special fire-fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent with skin and eyes. Full turnout gear.

Unusual fire and explosions hazard:

Not considered to be a fire hazard nor an explosions hazard.

#### **6、Accidental release measures**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust. Pickup and place in a suitable container for disposal in a method that does not generate dust.

Ventilate area and wash spill site after material pickup is complete.

#### **7、Handing and storage**

Store below 2~8°C in a desiccated environment and protected from light.

Containers of this material may be hazardous when empty since they retain

Product residues (dust, solids); observe all warnings and precautions listed for the product.

#### **8、Exposure controls/personal protection**

NIOSH/MSHA-approved respirator.

Mechanical exhaust.

Compatible chemical-resistant gloves.

Chemical safety goggles.

#### **9、Physical and chemical properties**

Physical state : White powder

Color : White

Molecular Weight : 623.65 g/mol

Melting Point : Not available

Solubility : Soluble in water and acetic acid.

Flash point : Not available.

#### **10、Stability and reactivity**

Stability:

Stable under ordinary conditions of use and storage.

Hazardous combustion or decomposition products:

Not yet available.

Hazardous Polymerization:

Not yet available.

#### **11、Toxicological information**

Skin irritation: Not available.

Acute toxicity : LD50: Not available.

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Reproduction effects: Not available.

Teratogenic effects: Not available.

#### **12、Ecological information**

Ecotoxicity: Not available

#### **13、Disposal considerations**

Dissolve or mix the material with a combustible solvent and burn in a chemical Incinerator equipped with an afterburner and scrubber. Observe all Federal, State and Local Environmental Regulations.

#### **14、Transport information**

Contact Henan New-sensation company for transportation information.



**15、Regulatory information**

Data is not available.

**16、Other information**

The information presented herein is believed to be accurate and representative of currently accepted technical literature. However, new-sensation Bio does not mean to imply its completeness or comprehensiveness. Therefore, we suggest the use of this information solely as a guide in the use and handling of this product, and further urge the user to determine the suitability of this material for any particular purpose. New-sensation Bio shall not be held liable for any damages resulting from sole reliance on this information.