

# MATERIAL SAFETY DATA SHEET

## LDL Receptor Polyclonal Antibody

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Cayman Chemical Company  
1180 E. Ellsworth Rd.  
Ann Arbor, MI 48108

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### 1. Product and Company Identification

**Product Code:** 10007665  
**Product Name:** LDL Receptor Polyclonal Antibody  
**Manufacturer Information**  
**Company Name:** Cayman Chemical Company  
**Emergency Contact:** Cayman Chemical Company (800)364-9897  
**Information:** Cayman Chemical Company (734)971-3335  
**Chemical Family:** Monoclonal & Polyclonal Antibodies  
**Synonyms:** LDLR polyclonal antibody

### 2. Composition/Information on Ingredients

| Hazardous Components (Chemical Name) | CAS #      | Percentage  | OSHA PEL | ACGIH TWA | Other Limits |
|--------------------------------------|------------|-------------|----------|-----------|--------------|
| 1. Glycerol                          | 56-81-5    | 0.0 -50.0 % | No data. | 10 mg/m3  | No data.     |
| 2. Water                             | 7732-18-5  | 0.0 -98.8 % | No data. | No data.  | No data.     |
| 3. Serum Albumin                     | 9048-46-8  | 0.0 -0.1 %  | No data. | No data.  | No data.     |
| 4. Sodium azide                      | 26628-22-8 | 0.0 -0.02 % | No data. | No data.  | No data.     |
| 5. Sodium chloride                   | 7647-14-5  | 0.0 -0.8 %  | No data. | No data.  | No data.     |
| 6. Trizma base                       | 77-86-1    | 0.0 -0.3 %  | No data. | No data.  | No data.     |
| 7. LDL Receptor Polyclonal Antibody  | NA         | 0.0 -0.1 %  | No data. | No data.  | No data.     |

| Hazardous Components (Chemical Name) | RTECS #   | OSHA STEL | OSHA CEIL | ACGIH STEL | ACGIH CEIL |
|--------------------------------------|-----------|-----------|-----------|------------|------------|
| 1. Glycerol                          | MA8050000 | No data.  | No data.  | No data.   | No data.   |
| 2. Water                             | ZC0110000 | No data.  | No data.  | No data.   | No data.   |
| 3. Serum Albumin                     | MT6446000 | No data.  | No data.  | No data.   | No data.   |
| 4. Sodium azide                      | VY8050000 | No data.  | No data.  | No data.   | 0.29 mg/m3 |
| 5. Sodium chloride                   | VZ4725000 | No data.  | No data.  | No data.   | No data.   |
| 6. Trizma base                       | TY2900000 | No data.  | No data.  | No data.   | No data.   |
| 7. LDL Receptor Polyclonal Antibody  | NA        | No data.  | No data.  | No data.   | No data.   |

### 3. Hazards Identification

**Emergency Overview:** No data available.  
**Route(s) of Entry:** Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection  
**Potential Health Effects (Acute and Chronic):** Material may be irritating to the mucous membranes and upper respiratory tract.  
May be harmful by inhalation, ingestion, or skin absorption.  
May cause eye, skin, or respiratory system irritation.  
The toxicological properties of this compound have not been fully evaluated.  
**LD 50/LC 50:** Please refer to Section 11.  
**Signs and Symptoms Of Exposure:** Prolonged exposure can cause: Nausea, headache, and vomiting.

### 4. First Aid Measures

**Emergency and First Aid Procedures:** If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.  
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.  
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.  
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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### 5. Fire Fighting Measures

|  |  |
|--|--|
| <b>Flash Pt:</b>                         | No data.   |
| <b>Explosive Limits:</b>                 | LEL: No data. UEL: No data.  |
| <b>Fire Fighting Instructions:</b>       | As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. |
| <b>Flammable Properties and Hazards:</b> | Emits toxic fumes under fire conditions.   |
| <b>Extinguishing Media:</b>              | Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.  |
| <b>Unsuitable Extinguishing Media:</b>   | No data available.   |

### 6. Accidental Release Measures

|   |   |
|---|---|
| <b>Steps To Be Taken In Case Material Is Released Or Spilled:</b> | Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).<br>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.<br>After removal, ventilate contaminated area and flush thoroughly with water. |
|---|---|

### 7. Handling and Storage

|   |   |
|---|---|
| <b>Hazard Label Information:</b>            | Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.<br>Wash thoroughly after handling.  |
| <b>Precautions To Be Taken in Handling:</b> | Avoid breathing (dust, vapor, mist, gas).<br>Avoid contact with eyes, skin, and clothing.<br>Avoid prolonged or repeated exposure.<br>Do not reuse this container.<br>Use with adequate ventilation.<br>Wash thoroughly after handling. |
| <b>Precautions To Be Taken in Storing:</b>  | Store at correct temperature.   |

### 8. Exposure Controls/Personal Protection

|   |  |
|---|--|
| <b>Protective Equipment Summary - Hazard Label Information:</b> | Eye wash station in work area   Lab coat   Latex disposable gloves   Safety glasses   Safety shower in work area   Vent Hood   |
| <b>Respiratory Equipment (Specify Type):</b>                    | No data available.   |
| <b>Eye Protection:</b>  | Safety glasses   |
| <b>Protective Gloves:</b>                                       | Latex disposable gloves  |
| <b>Other Protective Clothing:</b>                               | Lab coat   |
| <b>Engineering Controls (Ventilation etc.):</b>                 | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.                               |
| <b>Work/Hygienic/Maintenance Practices:</b>                     | Do not take internally.<br>Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.<br>Wash thoroughly after handling. |

### 9. Physical and Chemical Properties

|   |  |
|---|--|
| <b>Physical States:</b>                       | <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid |
| <b>Melting Point:</b>                         | No data.   |
| <b>Boiling Point:</b>                         | No data.   |
| <b>Autoignition Pt:</b>                       | No data.   |
| <b>Flash Pt:</b>                              | No data. Method:   |
| <b>Explosive Limits:</b>                      | LEL: No data. UEL: No data.  |
| <b>Specific Gravity (Water = 1):</b>          | No data.   |
| <b>Vapor Pressure (vs. Air or mm Hg):</b>     | No data.   |
| <b>Vapor Density (vs. Air = 1):</b>           | No data.   |
| <b>Evaporation Rate (vs Butyl Acetate=1):</b> | No data.   |

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**Solubility in Water:** No data.  
**Percent Volatile:** No data.  
**Corrosion Rate:** No data.  
**pH:** No data.  
**Appearance and Odor:** A clear, colorless solution

### 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** No data available.  
**Incompatibility - Materials To Avoid:** strong bases  
strong oxidizing agents  
**Hazardous Decomposition Or Byproducts:** carbon dioxide  
carbon monoxide  
**Hazardous Polymerization:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Polymerization:** No data available.

### 11. Toxicological Information

**Toxicological Information:** The toxicological effects of this compound have not been thoroughly studied.  
**Chronic Toxicological Effects:** Glycerol - Investigated as a mutagen and reproductive effector.

Glycerol - Target Organ Data:  
Effects on fertility (male fertility index)  
Effects on fertility (post-implantation mortality)  
Paternal effects (spermatogenesis)  
Paternal effects (testes, epididymis, sperm duct)

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.  
See actual entry in RTECS for complete information.  
Glycerol RTECS Number: MA8050000

**Carcinogenicity/Other Information:** No data available.  
**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### 12. Ecological Information

**Ecological Information:** Runoff from fire control or dilution water may cause pollution.

### 13. Disposal Considerations

**Waste Disposal Method:** Dispose in accordance with local, state and federal regulations.

### 14. Transport Information

#### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name:** No data available.  
**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

### 15. Regulatory Information

#### US EPA SARA Title III

| Hazardous Components (Chemical Name) | CAS #      | Sec.302 (EHS) | Sec.304 RQ  | Sec.313 (TRI) | Sec.110 |
|--------------------------------------|------------|---------------|-------------|---------------|---------|
| 1. Glycerol                          | 56-81-5    | No            | No          | No            | No      |
| 2. Water                             | 7732-18-5  | No            | No          | No            | No      |
| 3. Serum Albumin                     | 9048-46-8  | No            | No          | No            | No      |
| 4. Sodium azide                      | 26628-22-8 | Yes 500 LB    | Yes 1000 LB | Yes           | No      |
| 5. Sodium chloride                   | 7647-14-5  | No            | No          | No            | No      |
| 6. Trizma base                       | 77-86-1    | No            | No          | No            | No      |
| 7. LDL Receptor Polyclonal Antibody  | NA         | No            | No          | No            | No      |

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### US EPA CAA, CWA, TSCA

| Hazardous Components (Chemical Name) | CAS #      | EPA CAA | EPA CWA NPDES | EPA TSCA | CA PROP 65 |
|--------------------------------------|------------|---------|---------------|----------|------------|
| 1. Glycerol                          | 56-81-5    | No      | No            | No       | No         |
| 2. Water                             | 7732-18-5  | No      | No            | No       | No         |
| 3. Serum Albumin                     | 9048-46-8  | No      | No            | No       | No         |
| 4. Sodium azide                      | 26628-22-8 | No      | No            | No       | No         |
| 5. Sodium chloride                   | 7647-14-5  | No      | No            | No       | No         |
| 6. Trizma base                       | 77-86-1    | No      | No            | No       | No         |
| 7. LDL Receptor Polyclonal Antibody  | NA         | No      | No            | No       | No         |

## 16. Other Information

### Company Policy or Disclaimer

For research use only, not for human or veterinary clinical use.

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