

**Anti-trimethyl Histone H3 (Lys4; rabbit)
Monoclonal Antibody (Clone RM137)**

Revision: 10/31/2016

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** 20718
Product Name: Anti-trimethyl Histone H3 (Lys4; rabbit) Monoclonal Antibody (Clone RM137)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: For research use only, not for human or veterinary use.
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- Company Name:** Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108
- Web site address:** www.caymanchem.com
- Information:** Cayman Chemical Company +1 (734)971-3335
- 1.4 Emergency telephone number:**
- Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300
CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
Skin Corrosion/Irritation, Category 3
Serious Eye Damage/Eye Irritation, Category 2
- 2.2 Label Elements:**

**GHS Signal Word:** Warning**GHS Hazard Phrases:**

H316: Causes mild skin irritation.

H319: Causes serious eye irritation.

GHS Precaution Phrases:

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

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| | |
|---------------------------------|--|
| 2.3 Adverse Human Health | Causes mild skin irritation. |
| Effects and Symptoms: | Causes serious eye irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. |

Section 3. Composition/Information on Ingredients

| CAS # / RTECS # | Hazardous Components (Chemical Name)/ REACH Registration No. | Concentration | EC No./ EC Index No. | GHS Classification |
|-------------------------|--|---------------|---------------------------|---|
| NA NA | Anti-trimethyl Histone H3 (Lys4; rabbit) Monoclonal Antibody (Clone RM137) | 0.0 -0.1 % | NA NA | No data available. |
| 56-81-5 MA8050000 | Glycerol | 50.0 % | 200-289-5 NA | No data available. |
| 9048-46-8 MT6446000 | Bovine Serum Albumin (BSA) | 1.0 % | 232-936-2 NA | Acute Tox.(O) 4: H302 |
| 26628-22-8 VY8050000 | Sodium azide | 0.09 % | 247-852-1 011-004-00-7 | Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410 |
| 7647-14-5 VZ4725000 | Sodium chloride | 0.85 % | 231-598-3 NA | No data available. |
| 7778-77-0 TC6615500 | Potassium phosphate, Monobasic | 0.03 % | 231-913-4 NA | No data available. |
| 7558-79-4 WC4500000 | Sodium phosphate, Dibasic | 0.106 % | 231-448-7 NA | Eye Damage 2: H319 |
| 7732-18-5 ZC0110000 | Water | 47.0 -49.0 % | 231-791-2 NA | No data available. |

Section 4. First Aid Measures

| | |
|---|---|
| 4.1 Description of First Aid Measures: | |
| In Case of Inhalation: | Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. |
| In Case of Skin Contact: | Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. |
| In Case of Eye Contact: | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. |
| In Case of Ingestion: | 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. |

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Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Media: Use water spray to cool fire-exposed containers.
Unsuitable Extinguishing A solid water stream may be inefficient.
Media:
- 5.2 Flammable Properties and Hazards:** Emits toxic fumes under fire conditions.
 No data available.
- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions,** Avoid breathing vapors and provide adequate ventilation.
Protective Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
- 6.2 Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.
- 6.3 Methods and Material For Containment and Cleaning Up:** Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
- 7.2 Precautions To Be Taken in Storing:** Keep container tightly closed. Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

| CAS # | Chemical Name | Jurisdiction | Recommended Exposure Limits | Notations |
|------------|---------------|--------------|---|-----------------|
| 56-81-5 | Glycerol | ACGIH TLV | TLV: 10 mg/m3 | |
| | | France VL | TWA: 10 mg/m3 | |
| | | OSHA PELs | PEL: 15 (dust); 5 (resp.) mg/m3 | |
| | | Britain EH40 | TWA: 10 mg/m3 () STEL: () | |
| 26628-22-8 | Sodium azide | ACGIH TLV | CEIL: 0.29 mg/m3 | |
| | | Europe | TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 | Skin Absorption |
| | | France VL | TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 | |
| | | Britain EH40 | TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () | Skin Absorption |

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 Decomposition or
Byproducts:

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild; Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen. 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: NTP? No IARC Monographs? No OSHA Regulated? No

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|------------|--|------|------|-------|------|
| NA | Anti-trimethyl Histone H3 (Lys4; rabbit) Monoclonal Antibody (Clone RM137) | n.a. | n.a. | n.a. | n.a. |
| 56-81-5 | Glycerol | n.a. | n.a. | n.a. | n.a. |
| 9048-46-8 | Bovine Serum Albumin (BSA) | n.a. | n.a. | n.a. | n.a. |
| 26628-22-8 | Sodium azide | n.a. | n.a. | A4 | n.a. |
| 7647-14-5 | Sodium chloride | n.a. | n.a. | n.a. | n.a. |
| 7778-77-0 | Potassium phosphate, Monobasic | n.a. | n.a. | n.a. | n.a. |
| 7558-79-4 | Sodium phosphate, Dibasic | n.a. | n.a. | n.a. | n.a. |
| 7732-18-5 | Water | n.a. | n.a. | n.a. | n.a. |

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

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

Section 14. Transport Information
14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.
DOT Hazard Class:
UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.
UN Number:
Hazard Class:



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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS # | Hazardous Components (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|------------|---|--------------|-------------|--------------|
| NA | Anti-trimethyl Histone H3 (Lys4; rabbit) Monoclonal Antibody (Clone RM137) | No | No | No |
| 56-81-5 | Glycerol | No | No | No |
| 9048-46-8 | Bovine Serum Albumin (BSA) | No | No | No |
| 26628-22-8 | Sodium azide | Yes 500 LB | Yes 1000 LB | Yes |
| 7647-14-5 | Sodium chloride | No | No | No |
| 7778-77-0 | Potassium phosphate, Monobasic | No | No | No |
| 7558-79-4 | Sodium phosphate, Dibasic | No | Yes 5000 LB | No |
| 7732-18-5 | Water | No | No | No |

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|------------|---|---|
| NA | Anti-trimethyl Histone H3 (Lys4; rabbit) Monoclonal Antibody (Clone RM137) | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No |
| 56-81-5 | Glycerol | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 9048-46-8 | Bovine Serum Albumin (BSA) | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 26628-22-8 | Sodium azide | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 7647-14-5 | Sodium chloride | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 7778-77-0 | Potassium phosphate, Monobasic | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 7558-79-4 | Sodium phosphate, Dibasic | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |
| 7732-18-5 | Water | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No |

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.

Section 16. Other Information

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Additional Information About This Product: No data available.

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.