1 Identification of substance

- **Product details**

  - **Trade name:** Rabies Vaccine, Killed Virus  
    IMRAB® Killed Virus
  
  - **Product number:** 2312
  
  - **Manufacturer/Supplier:** Merial Limited  
    2100 Ronson Road  
    Iselin, NJ 08830-3077

  - **Information department:** MSDS Coordinator
  
  - **Emergency information:**  
    Spill Information: CHEMTREC® 1-800-424-9300  
    CHEMTREC® International 1+703-527-3887  
    Reverse charges.  
    Health Information: 1-888-637-4251, Option 5

2 Composition/Data on components

- **Chemical characterization**

  - **Description:** Mixture of the substances listed below.

<table>
<thead>
<tr>
<th>Components</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non hazardous inert ingredients</td>
<td>99.9%</td>
</tr>
<tr>
<td>54–64–8 Thimerosal</td>
<td>&gt;0.1%</td>
</tr>
<tr>
<td>T+; R 26/27/28-33</td>
<td></td>
</tr>
</tbody>
</table>

- **Vaccine components**

  This product is a vaccine (biological) for use in animals.
  It is not considered to be a hazardous chemical based on evaluations made in accordance with the OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

  **Liquid component contains:**
  Inactivated Rabies Virus

3 Hazards identification

- **Hazard description:** Not applicable.

- **Information pertaining to particular dangers for man and environment:**  
  - Not applicable.

- **Classification system:**

  The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

- **NFPA ratings (scale 0 – 4)**

  - Health = 0
  - Fire = 0
  - Reactivity = 0
Trade name: Rabies Vaccine, Killed Virus
IMRAB® Killed Virus

· HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

4 First aid measures

· General information: No special measures required.
· After inhalation: Not an expected route of entry.
· After skin contact: Immediately wash with water and soap and rinse thoroughly.
· After eye contact: Rinse opened eye for a minimum of 15 minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: Immediately call a doctor.

5 Fire fighting measures

· Suitable extinguishing agents:
  Use water spray or all purpose dry chemical.
· Protective equipment:
  Fire fighters should wear self-contained breathing apparatus and full protective equipment.

6 Accidental release measures

· Person-related safety precautions: Not required.
· Measures for environmental protection:
  Do not allow product to reach sewage system or any water course.
· Measures for cleaning/collecting:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  To clean spills or contamination use 1:30 dilution of household bleach.
  Dispose contaminated material as waste according to section XIII.
· Additional information: No dangerous substances are released.

7 Handling and storage

· Handling:
  Information for safe handling:
  Store in cool, dry place in tightly closed containers.
  Handle with care. Avoid jolting and impact.
· Information about protection against explosions and fires:
  No special measures required.

· Storage:
  Requirements to be met by storerooms and receptacles:
  Store only in the original container.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions:
  Store in a cool, dry, well ventilated place.
  Recommended storage temperature:
  2 - 7 °C
  DO NOT FREEZE
Material Safety Data Sheet
ISO/DIS 11014 / 29 CFR 1910.1200 / ANSI Z400.1

Printing date 05/30/2000 Reviewed on 05/30/2000

Trade name: Rabies Vaccine, Killed Virus
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8 Exposure controls and personal protection

Components with limit values that require monitoring at the workplace:
54-64-8 Thimerosal
NIOSH REL: See Mercury, Aryl

- Personal protective equipment:
- General protective and hygienic measures:
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
  Do not eat, drink, smoke or inhale.
  Do not store food in the working area.
- Breathing equipment:
  Not required for this formulation when used in accordance with directions.
- Protection of hands: Not required under normal conditions of use.
- Eye protection: Safety goggles.

9 Physical and chemical properties

- Form: Liquid
- Color: Pink to red
- Odor: Slight or no odor

<table>
<thead>
<tr>
<th>Value/Range</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range:</td>
<td>Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Auto igniting:</td>
<td>Product is not self-igniting.</td>
<td></td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Fully miscible.</td>
<td></td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- Dangerous reactions: No dangerous reactions known.
- Dangerous products of decomposition:
  No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritating effect known.
    - on the eye: No irritating effect known.
  - Sensitization: No sensitizing effects known.
Trade name: Rabies Vaccine, Killed Virus
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Additional toxicological information:
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

Product:
Recommendation:
Incinerate in an EPA approved facility for the incineration of mercury.

Waste disposal key:
D009 - Waste MEDICINE, LIQUID, TOXIC, 6.1, UN1851, PGIII (Vaccines with thimerosal)

Uncleaned packagings:
Recommendation:
Incinerate in an EPA approved facility for the incineration of mercury.

Recommended cleansing agent:
To clean spills or contamination use 1:30 dilution of household bleach.

14 Transport information

DOT regulations:
Hazard class: -

Land transport ADR/RID (cross-border):
ADR/RID class: -

Maritime transport IMDG:
IMDG Class: -
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: -

15 Regulations

Sara
Section 355 (extremely hazardous substances):
None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

TSCA (Toxic Substances Control Act):
54-64-8 Thimerosal

CA Proposition 65
Chemicals known to cause cancer:
None of the ingredients are listed.
Chemicals known to cause reproductive toxicity:
None of the ingredients are listed.
Trade name: Rabies Vaccine, Killed Virus
IMRAB® Killed Virus

· Product related hazard informations:
  Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to
  directives on hazardous materials.

· Safety phrases:
  29/56 Do not empty into drains, dispose of this material and its
  container at hazardous or special waste collection point

· Water hazard class:
  Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

  This information is based on our present knowledge. However, this shall
  not constitute a guarantee for any specific product features and shall
  not establish a legally valid contractual relationship.

  · Department issuing MSDS: MSDS Coordinator
  · Contact: MSDS Coordinator, 706-552-2739, msds@merial.com

USA