1. Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier:
   - Product name: Anti-PIWIL2 (MILI) (Mouse) pAb
   - Product code: PM044

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses of the product: Research Use Only

1.3 Details of the supplier of the safety data sheet
   Manufacturer and Supplier (Asia): Medical & Biological Laboratories (MBL) Co., Ltd.
   Address: 1018-1 Terasawaoka, Ina, Nagano 396-0002, Japan
   Division: SDS Support
   Telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)
   e-mail address: sds-support@mbl.co.jp
   Supplier: MBL International Corporation.
   Address: 15A Constitution Way, Woburn, MA 01801, USA
   Telephone number: +1-800-200-5459, option 3.
   e-mail address: tech@mblintl.com
   Contact person: Technical Service
   Emergency telephone number: +81-265-76-1777 (Monday to Friday, 9 AM to 5 PM JST)

2. Hazards identification
   GHS classification and label elements of the product
   2.1 Classification of the substance or mixture
      Classification according to Hazard Communication Standard ~2012 (29 CFR 1910.1200)
   2.2 Label elements
      No GHS label element
      No Signal word

3. Composition/information on ingredients
   Mixture/Substance selection:
   3.2 Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS No.</th>
<th>Content (%)</th>
<th>ECNO</th>
<th>HAZCODE_EU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>50–60</td>
<td>200–289-5</td>
<td>-</td>
</tr>
</tbody>
</table>

4. First-aid measures
   4.1 Descriptions of first-aid measures
   IF INHALED
      Remove person to fresh air and keep comfortable for breathing.
   IF ON SKIN (or hair)
      Wash with plenty of soap and water.
      If skin irritation occurs: Get medical advice/attention.
   IF IN EYES
      Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
      If eye irritation persists: Get medical advice/attention.
   IF SWALLOWED
Rinse mouth.

5. Fire-fighting measures
5.1 Extinguishing media
   Suitable extinguishing media
   Use appropriate extinguishing media suitable for surrounding facilities.
   Unsuitable extinguishing media
   Unsuitable extinguishing media data is not available.
5.2 Specific hazards arising from the substance or mixture
   Specific hazards arising from the substance or mixture is not available.
5.3 Advice for firefighters
   Specific fire-fighting measures
   Evacuate non-essential personnel to safe area.

6. Accidental release measures
6.1 Personnel precautions, protective equipment and emergency procedures
   Wear proper protective equipment.
6.2 Environmental precautions
   Prevent spills from entering sewers, watercourses or low areas.
6.3 Methods and materials for containment and cleaning up
   Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
6.4 Reference to other sections
   Refer to section 13

7. Handling and storage
7.1 Precautions for safe handling
   Preventive measures
   (Safety treatments)
   Avoid contact with skin.
   Avoid contact with eyes.
   Safety measures data is not available.
   Any incompatibilities data is not available.
   Advice on general occupational hygiene
   Do not get in eyes, on skin, or on clothing.
   Do not eat, drink or smoke when using this product.
   Wash hands thoroughly after handling.
7.2 Storage
   Conditions for safe storage
   Keep container tightly closed.
   Keep cool. Protect from sunlight.
   Container and packaging materials for safe handling data is not available.
7.3 Specific end use(s)
   Research use only.

8. Exposure controls/personal protection
8.1 Control parameters
   Adopted value
   Adopted value in ACGIH is not available.
   OSHA-PEL
   (Glycerin)
TWA: 15mg/m³ (Total dust)
TWA: 5mg/m³ (Respirable fraction)

NIOSH-REL
(Glycerin)
See Appendix D

8.2 Exposure controls

Appropriate engineering controls
Do not use in areas without adequate ventilation.
Washing facilities should be available.

Individual protection measures
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.
Skin and body protection
Wear protective clothing.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Physical state: Liquid
Color: Colorless
Odor data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Flammability (gases, liquids and solids) data is not available.
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
pH: Neutral
Kinematic viscosity data is not available.
Solubility:
  Water solubility: miscible
  Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.
Density and/or relative density data is not available.
Oxidising properties data is not available.
No Particle characteristics data is not available.

9.2 Other information
Other information is not available.

10. Stability and Reactivity

10.1 Reactivity
Reactivity data is not available.

10.2 Chemical stability
Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions
Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid
Conditions to avoid data is not available.

10.5 Incompatible materials
Incompatible materials data is not available.
10.6 Hazardous decomposition products
Hazardous decomposition products data is not available.

11. Toxicological Information
11.1 Information on toxicological effects
Acute toxicity data is not available.
Irritant properties
Skin corrosion/irritation data is not available.
Serious eye damage/irritation data is not available.
Allergic and sensitizing effects data is not available.
Mutagenic effects data is not available.
Carcinogenic effects data is not available.
Teratogenic effects data is not available.
Reproductive toxicity data is not available.
STOT
STOT—single exposure data is not available.
STOT—repeated exposure data is not available.
Aspiration hazard data is not available.

12. Ecological Information
12.1 Ecotoxicity
Ecotoxicity data is not available.
Water solubility
(Glycerin)
miscible (ICSC, 2006)
12.2 Persistence and degradability
Persistence and degradability data is not available.
12.3 Bioaccumulative potential
(Glycerin)
log Pow=-1.76 (ICSC, 2006)
12.4 Mobility in soil
Mobility in soil data is not available.
12.7 Other adverse effects
Ozone depleting chemical data is not available.

13. Disposal considerations
Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging
13.1 Waste treatment methods
Dispose of contents/container in accordance with local/national regulation.
Contaminated packing
Dispose of container after using the contents completely.

14. Transport Information
UN No., UN CLASS
14.1 UN No. or ID No.: Not applicable
Not applicable to IMDG Code
Not applicable to IATA Dangerous Goods Regulations
14.5 Environmental hazards
MARPOL Annex III — Prevention of pollution by harmful substances
Marine pollutants (yes/no): no

Anti-PIWIL2 (MILI) (Mouse) pAb
14.6 Special precautions for user
Special precautions for user is not applicable.

15. Regulatory Information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Chemicals listed in TSCA Inventory
Glycerin
Other regulatory information
California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT)
Not listed.
Not ingredients listed.
15.2 Chemical safety assessment
No chemical safety assessment has been carried out for this product.

16. Other information
The product is not applicable to GHS classifications.
Reference Book
Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th ed., 2019 UN
IMDG Code, 2018 Edition (Incorporating Amendment 39–18)
IATA Dangerous Goods Regulations (62nd Edition) 2021
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2020 TLVs and BEIs. (ACGIH)
Supplier’s data/information
Revision information
Issue date: 09/28/2011
Most modern edition: 05/18/2021
General Disclaimer
This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.