

Product name : Anti human RAR β mouse monoclonal antibody (Code No. PP-H4338-00)

Reference Number : AB130023E

Issuing Data : 8 August 2019

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

- **Other means of identification / Clone Number** : H4338
- **Application of the substance / the preparation** : For research use only.
- **Company** : Perseus Proteomics Inc.
Address : 4-7-6 Komaba, Meguro-ku, Tokyo, 153-0041, Japan
Telephone : +81 3 5738 1705
Fax : +81 3 3481 5760
- **Emergency phone** : +81 3 5738 1705
- **Note** : This SDS is written to address potential health and safety issues associated with the handling of the formulated product.

2. Hazards Identification

- **Classification** : Not classified
- **Pictogram** : Not applicable.
- **Signal word** : Not applicable.
- **Hazard statements** : Not applicable.
- **Precautionary statements** : Not applicable.
- **Other hazards** : Mixture - contains sodium azide. The most common adverse effects reported with exposure to sodium azide include dizziness, headache, nausea and vomiting, rapid breathing and heart rate, restlessness, weakness, runny nose, cough, and red eyes. Overexposure to sodium azide may cause convulsions, low blood pressure, loss of consciousness, lung injury, reduced heart rate, and potentially fatal respiratory failure. Inhalation of sodium azide may cause respiratory irritation.
- **Note** : This mixture is not classified as hazardous according to Regulation EC No 1272/ 2008 (EU CLP) and Hazard Communication Standard No. 1910.1200 (US OSHA). The pharmacological, toxicological and ecological properties of this mixture have not been fully characterized..

3. Composition / Information on Ingredients

<u>Ingredient</u>	<u>CAS No.</u>	<u>EINECS/ELINCS No.</u>	<u>%Composition</u>	<u>GHS Classification</u>
Sodium azide	26628-22-8	247-852-1	< 0.1%	ATO2:H300; AA1:H400; CA1:H410; EUH032

- **Note** : The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

4. First Aid Measures

- **If inhaled** : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact** : Wash off with soap and plenty of water. Generally the product does not irritate the skin.
- **In case of eye contact** : Flush eyes with water as a precaution. Then consult a doctor.
- **If swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately seek medical attention and appropriate follow-up.

Product name : Anti human RAR β mouse monoclonal antibody (Code No. PP-H4338-00)

Reference Number : AB130023E

Issuing Data : 8 August 2019

5. Firefighting Measures

- **Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- **Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

- **Person-related safety precautions** : Use standard laboratory practices including proper personal protective equipment.
- **Measures for environmental protection** : Not available.
- **Measures for containment and cleaning up** : Absorb liquid components with inert liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

7. Handling and Storage

- **Precautions for safe handling** : Store in a well ventilated place. Keep container tightly closed.
- **Information about protection against explosions and fires** : Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls and Personal Protection

- **Control parameters** : Not available.

Permissible Exposure Limits	Component	Permissible Exposure Limits(s)
	Sodium Azide	ACGIH, TLV: 0.29 mg/m ³ , ceiling,

- **Appropriate engineering controls** : Follow usual standard laboratory practices. The following personal protection is recommended:

Respiratory Protection: Respiratory Protection not required. For nuisance exposures use respirators and components approved under appropriate government standards.

Hand Protection : Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye Protection : Use equipment for eye protection tested and approved under appropriate government standards.

Skin and Body Protection : Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

9. Physical and Chemical Properties

Appearance	Aqueous solution
Color	Clear
Odor	Little to none
Odor threshold	Not available.
pH	Not available.
Melting point/Freezing point	Not available.

Product name : Anti human RAR β mouse monoclonal antibody (Code No. PP-H4338-00)

Reference Number : AB130023E
Issuing Data : 8 August 2019

Boiling point/Boiling range	Not available.
Evaporation rate	Not available.
Flash point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Water solubility	Not available.
Partition coefficient :n-octanol/water	Not available.
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	Not available.
Viscosity	Not available.
Flammability	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

10. Stability and Reactivity

- **Reactivity** : Sodium azide may react with lead or copper plumbing to form highly explosive metal azide.
- **Chemical Stability** : Stable under normal ambient and storage and handling temperatures.
- **Incompatible materials to be avoided** : Heat and moisture.
- **Incompatible materials** : Metals and metallic compounds, and strong acids/alkalis, strong oxidizing/reducing agents.
- **Hazardous decomposition products** : May form carbon dioxide and carbon monoxide, metal oxides.

11. Toxicological Information

- **Acute toxicity** : Not available.
- **Skin corrosion / irritation** : Not available.
- **Serious eye damage / irritation** : Not available.
- **Respiratory or skin sensitization** : Not available.
- **Germ cell mutagenicity** : Not available.
- **Carcinogenicity** : Not available.
- **Reproductive toxicity** : Not available.
- **Specific Target Organ Toxicity - single exposure** : Not available.
- **Specific Target Organ Toxicity - repeated exposure** : Not available.
- **Aspiration hazard** : Not available.
- **Information on likely routes of exposure** : Routes of entry anticipated; oral, dermal, inhalation.
- **Symptoms related to the physical, chemical and toxicological characteristics** :
 - **Inhalation** : Not available.
 - **Ingestion** : Not available.

Product name : Anti human RAR β mouse monoclonal antibody (Code No. PP-H4338-00)

Reference Number : AB130023E
Issuing Data : 8 August 2019

Skin contact : Not available.

• **Eye contact** : May cause eye burns.

• **Delayed and immediate effects and also chronic effects from short and long term exposure** :

Short term exposure / Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term (chronic) exposure / Potential immediate effects : Not available.

Potential delayed effects : Not available.

• **Numerical measures of toxicity** : Not available.

• **Other Information** : See Section 2- "Other hazards".

12. Ecological Information

• **Ecotoxicity** : Not available.

• **Persistence and degradability** : Not available.

• **Bioaccumulative potential** : Not available.

• **Mobility in soil** : Not available.

• **Other adverse effects** : Not available.

• **Note** : May be harmful to the environment, particularly aquatic organisms. Although present at low concentrations, disposal should consider that sodium azide is present. Releases to the environment should be avoided.

13. Disposal Considerations

• **Disposal methods** : Dispose of waste in accordance to applicable national, regional, or local laws and regulations. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

• **Contaminated packaging** : Dispose in the same manner as unused product.

• **Special precautions** : Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.

14. Transportation Information

• **ADR/RID AND/ADNR IMDG IATA/DOT** : Not applicable.

• **UN Number** : Not applicable.

• **DOT regulations** : Not applicable.

• **Hazard class** : Not applicable.

• **Land transport ADR/RID (cross-border)** : Not applicable.

• **Maritime transport IMDG** : Not applicable.

• **Marine pollutant** : Not applicable.

• **Air transport ICAO-TI and IATA-DGR** : Not applicable.

• **Transport/Additional information** : Not applicable.

15. Regulatory Information

Product name : Anti human RAR β mouse monoclonal antibody (Code No. PP-H4338-00)

Reference Number : AB130023E
Issuing Data : 8 August 2019

• **US Federal and State Regulations**

TSCA (Toxic Substances Control Act) : Not applicable.

SARA 313 : Sodium azide: CAS No.26628-22-8, concentration <0.1%

SARA 311/312 Hazards : Sodium azide:Acute health hazard

CERCLA Reportable Quantity : Not applicable.

California Proposition 65 : Not applicable.

• **European Union**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

16. Other Information

• **NFPA Ratings** : Sodium azide **Health**: 3 **Fire**: 0 **Reactivity**: 2

• **Full text of H phrases and GHS classifications** : ATO2 – Acute Toxicity (Oral) Category 2. H300 – Fatal if swallowed. AA1 – Acute aquatic toxicity Category 1. H400 – Very toxic to aquatic life. CA1 – Aquatic toxicity (chronic) – Category 1.
EUH032 - Contact with acids liberates very toxic gas.

• **Notice to reader** : To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.