

MATERIAL SAFETY DATA SHEET

Created: September 28, 2011

Revised: February 1, 2012

1. Identification of the Substance/Mixture of the Company/Undertaken

Product Name	Anti-IL-18 (Mouse) mAb-Biotin
Catalog No.	D048-6
Manufacturer	Medical & Biological Laboratories (MBL) Co., Ltd. KDX Nagoya Sakae Bldg. 10F 4-5-3 Sakae, Naka-ku, Nagoya 460-0008, Japan TEL: +81-265-76-4999 (9 AM to 5 PM JST; Hiroshi Takatoya) FAX: +81-265-76-1964 E-mail: takatoya.hiroshi@mbl.co.jp
Supplier	MBL International Co. 4 H Constitution Way Woburn, MA 01801, USA TEL: +1-800-200-5459 x1113 (Dr. Bindi M. Doshi: Technical Service Manager) FAX: +1-781-939-6963 E-mail: bindi.doshi@mblintl.com
Intended Use	For Research Use Only

2. Hazards Identification

GHS Classification	N/A
Symbol	No Symbol
Signal Word	N/A
Hazard Statement	N/A

3. Composition/Information on Ingredients

Chemical Identity	
Substance / Mixture	Mixture
Hazardous Ingredients	Sodium azide included as preservative.
Synonyms	Smite, Azide, Azium
Concentration	0.09% (Not hazardous at this concentration)
Formula	NaN ₃
Molecular Weight	65.02
CAS No.	26628-22-8
EC No. (EINECS)	247-852-1
EC Index No.	011-004-00-7

4. First-aid Measures

After Inhalation	Supply fresh air, consult doctor in case of complaints.
After Skin Contact:	Immediately wash skin with water and soap and rinse thoroughly.
After Eye Contact	Immediately rinse opened eye for several minutes under running water. Then consult a doctor.
After Swallowing	Rinse mouth with water. Seek medical attention and appropriate follow-up.

5. Fire-fighting Measures

Suitable Extinguishing Agents	Non-flammable aqueous solution.
Protective Equipment	No special measures required.

6. Accidental Release Measures

Personal Precautions	Use standard laboratory practices including proper personal protective equipment in order to avoid direct contact with material and wash after handling.
Procedures for Cleaning/absorption	Absorb liquid with liquid-binding material. Dispose contaminated material as waste according to item 13.
Ventilation	No special ventilation is necessary.
Environmental Precautions	N/A

7. Handling and Storage

Handling	No special measures required. No special precautions are necessary if used correctly. Do not inhale and ingest.
Storage	Store at 4°C preferably in the dark.

8. Exposure Controls and Personal Protection

Control Parameters	None known.
Protective Equipments	Follow usual standard laboratory practices. The use of latex gloves, safety glasses and protective work clothing is recommended. Respiratory protection is not required.
Hygiene Measures	Do not eat, drink or store food and beverages in areas where chemicals are used. Wash hands before breaks and at the end of the work shift.

9. Physical and Chemical Properties

Physical Data	
Form	Solution
Color	Colorless
Odor	Odorless
pH	Neutral
Boiling Point/Boiling Range	Not determined.
Flash Point	No data.
Flammability	Not flammable.
Explosive Properties	No explosion hazard.
Oxidizing Properties	Not determined.
Vapor Pressure	No data.
Evaporation Rate	Not determined.
Relative Density	Not determined.
Solubility in /Miscibility with Water	Soluble/miscible.
Partition Coefficient	Not determined.
Viscosity	Not determined.

10. Stability and Reactivity

Chemical Stability	Stable at 4°C or less.
Reactivity	This product contains low concentration of sodium azide (0.09%). Sodium azide can form explosive compounds with heavy metals and may result in the build up of shock-sensitive compounds. Sodium azide reacts with the acid and a poisonous and explosive hydronitric acid may be generated.
Thermal Decomposition/conditions to be Avoided	No decomposition if used according to specification.
Incompatible Materials to be Avoided	Acid, metals and metallic compounds.
Hazardous Decomposition Products	No dangerous decomposition products known.

11. Toxicological Information

Acute Toxicity	Not known.
Skin Irritant Effect	Not known.
Eye Irritant Effect	Not known.
Chronic Toxicity	Not known.
Sensitization	Not known.
Mutagenicity	Not known.
Teratogenicity	Not known.
Reproduction Toxicity	Not known.

*The product is not subject to classification according to GHS ver. 3.

12. Ecological Information

Ecotoxicity	Not determined.
Biodegradability	Not determined.
Mobility	Not determined.

13. Disposal Considerations

Waste	Dispose as special waste in compliance with applicable national, regional or local regulations.
Empty Packaging	Dispose in compliance with applicable national, regional or local regulations.

14. Transport Information

UN No.	None.
Transport Regulations	Transportation of the product is not regulated according to the definition of hazardous in US DOT, IMDG, IATA, ICAO, Canadian TDG, or European ADR.
Indicate Precaution	Store at 4°C.

Other Information

Protect from direct sunlight and high temperature. Avoid damaging containers.

15. Regulatory Information

The product does not contain a hazardous ingredient in an amount that requires identification and labeling according to European guidelines accordance with EEC directives (67/548/EEC, 99/45/EEC). The product is exempt from WHMIS requirements in Canada.

16. Other Information

The 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. The information in this document is intended only as a guide to the appropriate precautionary handling of this material by a person trained in, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and danger of this chemical material in his application. MBL shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet. Since conditions and manner of use are outside of our control, MBL can assume no liability in connection with any use of this information.