

MATERIAL SAFETY DATA SHEET

Created: October 7, 2011

Revised: February 1, 2012

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

Product Name	Recombinant Human IL-18 (without BSA)
Catalog No.	B003-2
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

*The product contains no substances which at their concentration, are considered to be hazardous to health.

3. Composition/Information on Ingredients

Chemical Identity	
Substance/ Mixture	Mixture
Hazardous/ Non-hazardous	None
Ingredients	

4. First-aid Measures

After Inhalation	Supply fresh air, consult doctor in case of complaints.
After Skin Contact:	Immediately wash skin with plenty of water.
After Eye Contact	Immediately rinse opened eye for several minutes under running water.
After Ingestion	Rinse mouth with water, consult doctor in case of complaints.

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.
Procedures for Cleaning/absorption	Absorb liquid with inert liquid-binding material.
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.
Storage	Store at -80°C or below preferably in the dark.

8. Exposure Controls and Personal Protection

Control Parameters	None known.
Protective Equipments	Follow usual standard laboratory practices including proper personal protective equipments (protective gloves, safety glasses, lightweight protective clothing).

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. 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 available.
Flash Point	Not available.
Flammability	Not flammable.
Explosive Properties	No explosion hazard.
Oxidizing Properties	Not available.
Vapor Pressure	Not available.
Evaporation Rate	Not available.
Relative Density	Not available.
Solubility in /Miscibility with Water	Soluble/miscible.
Partition Coefficient	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Chemical Stability	Stable at -80°C or below.
Thermal Decomposition/Conditions to be Avoided	No decomposition if used according to specification.
Incompatible Materials to be Avoided	Not known.
Hazardous Decomposition Products	No dangerous decomposition products known.
Hazardous Polymerization	Hazardous polymerization does not occur.

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.
Target Organ Effects	Not known.

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

12. Ecological Information

Ecotoxicity	Not information available.
Biodegradability	Not information available.
Mobility	Not information available.
Bioaccumulation	Not information available.

13. Disposal Considerations

Waste	Dispose in compliance with applicable national, regional or local laws and regulations.
Empty Packaging	Dispose in compliance with applicable national, regional or local laws and regulations.

14. Transport Information

IATA	Not restricted.
Proper Shipping Name	Not classified as dangerous in the meaning of transport regulations.
Hazard Class	No information available.
Subsidiary Class	No information available.
Packing Group	No information available.
UN-No.	No information available.
DOT (Dept. of Transportation, US)	Not a hazardous material for DOT shipping.
Indicate Precaution	Store at -80°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.