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 (Human) mAb

Catalog No. D043-3

Manufacturer Medical & Biological Laboratories (MBL) Co., Ltd.

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> 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 Glycerol

Ingredients

Synonyms Glycerin; 1,2,3-Propantriol

Concentration 50% (Not hazardous at this concentration)

Formula C3H8O3 92.09 Molecular Weight CAS No. 56-81-5 EC No. (EINECS) 200-289-5 EC Index No. Not listed **TSCA Inventory** Listed

4. First-aid Measures

Supply fresh air, consult doctor in case of complaints. **After Inhalation**

After Skin Contact Immediately wash skin with plenty of water.

Immediately rinse opened eye for at least 15 minutes under running water. **After Eye Contact After Ingestion** Rinse mouth with water. Seek medical attention and appropriate follow-up.

5. Fire-fighting Measures

Suitable Extinguishing Agents Dry chemical powder, carbon dioxide, foam, water spray.

Protective Equipment No special measures

6. Accidental Release Measures

Personal Precautions Use standard laboratory practices including proper personal protective

Procedures for Cleaning/absorption Absorbe liquid with inert liquid-binding material.

Ventilation No special ventilation is necessary.

Environmental Precautions

7. Handling and Storage

Handling No special measures required. No special precautions are necessary if used

correctly.

Store at -20°C preferably in the dark. Storage

8. Exposure Controls and Personal Protection

Control Parameters OSHA PEL (TWA), 15 mg/m³ total dust, 5 mg/m³ respirable fraction;

ACGIH OEL (TWA) 10 mg/m³.

Protective Equipments Follow usual standard laboratory practices including proper personal

protective equipments (protective gloves, safety glasses, lightweight

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 pН 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 -20°C or less (for antibody).

Thermal Decomposition/Conditions to

be Avoided

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 (Glycerol, 100%) TDLo (oral, human): 1,428 mg/kg; headache, nausea or vomiting (RTECS)

> LD₅₀ (oral, rat): 12,600 mg/kg (RTECS) LD₅₀ (dermal, rabbit): 10,000 mg/kg LD₅₀ (inhalation, rat): 570 mg/m³

No decomposition if used according to specification.

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. **Taget Organ Effects** Not known.

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

12. Ecological Information

Ecotoxicity (Glycerol, 100%) LC₅₀ (fish): 184,000 mg/L/96 hr SIDS; LC₅₀ (goldfish): >5,000 mg/L/24

hr SIDS.

Biodegrability Biodegradable.

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 -20°C (for antibody).

Other Information Protect from direct sunlight and high temperature. Avoid damaging

containers.

15. Regulatory Information

<Glycerol>

EU REGULATIONS:

Labelling according to EC Directives: See Section 2.

US REGULATIONS:

CAA/111 Volat. Org. Comp., NIOSH Recommend. Subst., Mass. Subst. List, Penn. Haz. Subst. List

EPA: CERCLA RQ= Not listed. EPCRA TPQ= Not listed

OSHA: TQ= Not listed

NFPA: HR= health-1, flam.-0, react.-0 HMIS: HR= health-1, flam.-0, react.-0

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.