

Title: SAFETY DATA SHEET		Effective Date: 11/11/2022
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1.0 PRODUCT AND COMPANY INFORMATION

- 1.1 Product name: Human/Murine/Rat BMP-2 Standard TMB ELISA Development Kit**
Components: Rabbit Anti-Human/Murine/Rat BMP-2, Biotinylated Rabbit Anti-Human/Murine/Rat BMP-2, Recombinant Human/Murine/Rat BMP-2, and Streptavidin-HRP Conjugate.
- 1.2 Catalog # / Part number: 900-T255**
- 1.3 Manufacturer / Supplier:**
PeproTech, Part of Thermo Fisher Scientific
5 Cedarbrook Drive
Cranbury, NJ 08512
Phone: 800-436-9910 / 609-497-0253
Fax: 609-497-0321
- 1.4 Emergency Information:**
Please call PeproTech at 609-497-0253
EMERGENCY HEALTH INFORMATION:
800-424-8802 National Response Center
PeproTech EC, Part of Thermo Fisher Scientific
PeproTech House
29 Margravine Road
London W6 8LL
UK
Phone: +44 (0)20 7610 3062
PeproTech Asia, Part of Thermo Fisher Scientific
12 Hamada Street
Tamar Building
Rehovot 76703
Israel
Phone: +972 (0) 8 946 0948
- 1.5 Application of the substance or mixture:** Not for human use.
- 1.6 Other product information:** This product has not been registered with CHEMTREC (USA)

2.0 HAZARDS IDENTIFICATION

- 2.1 Classification of substance or mixture:** Not a hazardous substance or mixture.
- 2.2 GHS classification:** Does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008
- 2.3 GHS labeling:** Does not need to be labeled in accordance with EC directives or respective national laws.
- 2.4 Special hazards:** None

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3.0 COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Ingredient name	%	CAS number
	Sodium chloride	0.1-1.0	7647-14-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which are classified as hazardous to health or the environment.

4.0 FIRST AID MEASURES

4.1 Description of first aid measures:

Eye contact: May cause eye irritation. Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Skin contact: May cause skin irritation. Immediately flush with plenty of water.

Inhalation: No recognized inhalation hazard. If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Ingestion: No recognized ingestion hazard. If swallowed, drink plenty of water. Get immediate medical attention.

5.0 FIRE FIGHTING MEASURES

5.1 Classification of substance or mixture: The product is non-flammable.

5.2 Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.3 Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Use eye protection, gloves, and apron. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

6.2 Methods for clean up: Sweep up, place in bag and hold for disposal. Ventilate area and wash site after material is picked up.

7.0 HANDLING AND STORAGE

7.1 Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing.

7.2 Storage: Keep tightly closed. Store Capture Antibody, Detection Antibody and Standard at -20°C until use. Store aliquoted Streptavidin-HRP Conjugate at 2-8°C.

7.3 Additional information: See product data sheet for more information on handling and storage.

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8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:** Contains no substances with occupational exposure limit values.
- 8.2 Engineering controls:** Ensure adequate ventilation. Use appropriate personal protective work clothing.
- 8.3 Personal precautions:**
- Eye:** Wear appropriate eye protection.
- Skin:** Wear clothing and gloves that cannot be penetrated by chemicals or oil.
- Inhalation:** Respiratory equipment is not required.

9.0 CHEMICAL AND PHYSICAL PROPERTIES**9.1 Description of chemical and physical properties:**

Appearance: Capture Antibody, Detection Antibody, and Standard: Solid; white powder or thin/invisible film.

Streptavidin-HRP Conjugate: Liquid; amber

Odor: None

pH: Capture Antibody, Detection Antibody, and Standard: Not available

Streptavidin-HRP Conjugate: 6-7

Vapor pressure: Not available

Vapor density: Not available

Boiling point: Not available

Melting/freezing point: Not available

Flash point UEL/LEL: None established

Evaporation rate: Undetermined

Flammability: Non-flammable material

Solubility: Not available

Specific gravity (water = 1): Not available

Volatile %: Not available

Water content: Not available

Decomposition Temperature: Not available

Autoignition Temperature: None established

VOC content: Not available

Viscosity: Not available

10.0 STABILITY AND REACTIVITY

- 10.1 Stability:** Stable under recommended storage conditions.

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- 10.2 Conditions to avoid:** Heat and moisture
- 10.3 Materials to avoid:** Strong oxidizing agents
- 10.4 Hazardous decomposition:** None determined
- 10.5 Hazardous polymerization:** Does not spontaneously polymerize

11.0 TOXICOLOGICAL INFORMATION

11.1 Potential health effects:

Eye contact: May cause eye irritation.

Skin contact: May cause skin irritation.

Inhalation: May be harmful if inhaled. May be irritating to mucous membranes.

Ingestion: May be harmful if swallowed.

Carcinogenicity: None

Reproductive toxicity: None

Mutagenicity: None

Sensitization: None

11.2 Information on toxicological effects:

Acute toxicity:

Ingredient name	Result	Species	Dose	Exposure
Sodium chloride	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	3000 mg/kg	-
	LDLo Intra-arterial	Guinea Pig	300 mg/kg	-

To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Irritation/Corrosion:

Ingredient name	Result	Species	Score	Exposure	Observation
Sodium chloride	Eyes – Moderate irritant	Rabbit	-	24 hrs 100 mgs	-
	Eyes – Moderate irritant	Rabbit	-	10 mgs	-
	Skin – Mild irritant	Rabbit	-	24 hrs 500 mgs	-

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12.0 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Ingredient name	Result	Species	Exposure
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae – Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm3 Fresh water	Algae – Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans – Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants – Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia – Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish – Morone saxatilis – Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans – Hyalella Azteca – Juvenile (Fledging, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants – Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia – Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish – Gambusia holbrooki - Adult	8 weeks

12.2 Biodegradability: Undetermined

12.3 Mobility: Undetermined

12.4 Bioaccumulation: Undetermined

13.0 DISPOSAL INFORMATION

13.1 Disposal method: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14.0 TRANSPORTATION INFORMATION

14.1 Transport information:

DOT Hazard class: Non-hazardous for transport.

IATA Hazard class: Non-hazardous for transport.

IMDG Hazard class: Non-hazardous for transport.

15.0 REGULATORY INFORMATION

15.1 US Federal and State Regulations:

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):

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Information on ingredients:

Ingredient name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Sodium chloride	0.1-1.0	No	No	No	Yes	No

SARA Title III Section 313 (40 CFR Part 372): This product does not contain any of the substances on the Toxic Chemicals List in 40 CFR Part 372.

US Inventory/TSCA (Toxic Substances Control Act): Not listed on inventory

OSHA Hazard Communication Standard: Non-hazardous

California Proposition 65: Not listed on California's listing of known or potential carcinogens.

15.2 Additional Regulations:

WHMIS Controlled Product Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

EC Inventory (EINECS/ELINCS): Not determined

Japan Inventory (MITI): Not determined

Australia Inventory (AICS): Not determined

Korea Inventory (ECL): Not determined

Canada Inventory (DSL): Not determined

Philippine Inventory (PICCS): Not determined

16.0 OTHER INFORMATION

16.1 Disclaimer: Not for human use.

16.2 Note to reader: This SDS and the information it contains is offered in good faith as accurate and complete. We have reviewed any information contained in this SDS which we received from sources outside our company. We believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this safety data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this safety data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.