

 <p>EXPRESS BIOTECH INTERNATIONAL (XpressBio)</p>	MSDS	
	NAME OF PRODUCT: For all Animal ELISA Kits, ELISA plates, and ELISA reagents manufactured by XpressBio with Catalog numbers IM-001 to IM-999, IM-001C to IM-999C, 595-001 to 595-999, AND 595-001C to 595-999C MSDS Number: IM-100999	
MATERIAL SAFETY DATA SHEET	Effective date: Oct .2009	Revision B

1-Product and Company Identification

PRODUCT NAME: Lab Animal ELISA Assays
SUPPLIER:
Name:
Address: P.O. BOX #458
Thurmont, MD 21788
USA
Phone number: (301) 228-2444
Fax number: (301) 560-6570
US toll free: 1-888-562-8914
Emergency phone number: Contact national poisons unit in your state or country.

2-Composition / information on components

PREPARATION

Chemical nature: (composition with the main components and dangerous components)

Components contributing to the hazard:

ABTS Peroxidase Substrate (12 mL)

Chemical	Concentration	CAS	EC Hazard symbol
2,2'-azino-di-(3-ethyl-benzothiazoline-sulfonic acid (ABTS™))	99-100 %	30931-67-0	Not available

Stop Solution (5 mL)

Chemical	Concentration	Units	CAS	EC Hazard symbol
Sodium Fluoride	1.25%	ml/ml	7681-49-4	Not available

Components presenting a hazard or a danger: (dangerous products with concentrations under the hazard threshold)

Peroxidase Conjugate (12 mL)

This preparation contains Anti-murine immunoglobulins conjugated to horse-radish peroxidase, a conjugate stabilizer, and Proclin as a preservative.

Serum Diluent Concentrate (1X) (30 ml)

Chemical	Concentration and Units

Positive and Negative Controls (1X) (1ml)

The preparation contains murine immunoglobulins in the Serum Diluent Concentrate (1X).

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Sodium Chloride	.818 %	g/ml
Sodium Phosphate Monobasic	.028 %	g/ml
Sodium Phosphate Dibasic:	.114 %	g/ml

This preparation also contains BSA, Goat Serum and Proclin as preservative.

Wash Buffer (20X) (60 ml)

Chemical	Concentration and Units	
Sodium Chloride	17.5 %	g/ml
Trizma Base	2.4 %	g/ml
Tween 80	4.3 %	g/ml

This preparation also contains Proclin as preservative.

Intended use: *Research Use Only* for animals

3-Hazard Identification

MOST IMPORTANT HAZARDS:

Adverse human health effects:

The following general hazard warnings apply to all the kit components

Potential Routes of Exposure:

Target organs: Skin Contact, eye contact, accidental ingestion, inhalation

Eye:

Excessive contact may cause eye irritation, redness, pain, burns

Skin:

Direct or repeated contact may cause skin irritation. May be absorbed through the skin causing systemic effects (see effects for inhalation and ingestion). Dermatitis

Inhalation:

Do not breathe vapor.

Accidental ingestion:

General –Abdominal pain. Shortness of breath. Unconsciousness. Vomiting. Sweating. Drowsiness.

Chronic Toxicity

Prolonged or repeated contact may cause allergic dermatitis (redness, irritation, rash), may cause sensitization.

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Reproductive and Developmental Toxicity:

Sodium Fluoride - Mutagenic for mammalian somatic cell, bacteria and/or yeast. May be toxic to kidneys, lungs, the nervous system, heart, gastrointestinal tract, cardiovascular

Carcinogenicity:

Sodium Fluoride - Classified 3 (Equivocal evidence.) by NTP

Environmental effects:

See section 12 – Ecological Information

EC classification of the preparation:

4-First-aid measures

The following general first aid measures apply to all components of the kit.

Inhalation:

Immediately move to fresh air and notify medical personnel. If not breathing give artificial respiration. If breathing difficult, give oxygen.

Skin contact:

Immediately wash thoroughly with soap and water for 15 minutes and notify medical personnel. Remove and wash contaminated clothing and shoes.

Eye contact:

Check for and remove contact lenses. Immediately flush eyes thoroughly with water for at least 15 minutes and notify medical personnel.

Ingestion:

If swallowed, wash out mouth with water and notify medical personnel. Remove and wash contaminated clothing and shoes.

5-Fire-fighting measures

The following general measures apply to all components of the kit:

Extinguishing media:

Use dry chemical foam or carbon dioxide. Water may not be effective.

Specific hazards:

Specific methods of fire-fighting:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

6-Accidental release measures

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Personal precautions:

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Methods of cleaning up:

Contain liquid when possible. Use non sparking tools and equipment. Absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Ventilate area and wash spill site after material pickup is complete.

Environmental precautions:

Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulation. Do not flush to sewers, storm drains, surface waters, and soil.

7-Handling and storage

Avoid contact with skin, eyes or clothing. Use adequate ventilation or minimize exposures to mists or aerosols. Wash thoroughly after handling. DO NOT permit contact with acids and other incompatible substances. Store at 2-8°C

8-Exposure control / Personal protection

Occupational Exposure Limits:

There are no established exposure limits for this product. However, the following exposure limits exist for the following hazardous ingredients:

Ingredients:

Sodium Fluoride - TWA: 2.5 (mg/m3) from NIOSH

Personal Protective Equipment:

Eye and Face Protection:

Wear safety glasses with side shield, or full face shield if eye contact is likely. The choice of protection should be based on the job activity and potential for exposure to eyes and face.

Respiratory protection:

When handling bulk quantities or for long durations where aerosolization of material is likely, wear a NIOSH – approved air purifying respirator.

Skin and body protection:

Wear gloves, lab coat, or other protective over-garment if skin contact is likely. The choice of skin protection should be based on the job activity and potential for exposure to the skin.

Hygiene measures:

Wash hands immediately after handling materials (especially before eating, drinking or smoking). Decontaminate or discard protective equipment after each use.

Remove personal protective equipment when leaving work area.

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9-Physical and chemical properties

Not Applicable

10-Stability and reactivity

The kit should only be used as instructed in the package insert.
See pack insert for further information of kit stability.

11-Toxicological information

Toxicological information is supplied for Sodium Fluoride only. Other components of the preparation are not supplied at levels or quantities currently thought to have toxicological effects.

Routes of Entry: . Absorbed through skin. Eye contact.

Toxicity to Animals:

LD50: Not available

LC50: Not available

Chronic Effectis on Humans:

CARCINOGENIC EFFECTS: Classified 3 (Equivocal evidence.) by NTP (Sodium Fluoride)

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells and for bacteria and/or yeast (Sodium Fluoride)

Contains material which may cause damage to the following organs; kidneys, lungs, the nervous system, heart, gastrointestinal tract, cardiovascular system, bones, teeth.

Other toxic Effects on Human.

Hazardous in case of skin contact (irritant), of ingestion.

Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung sensitizer, lung corrosive)

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (fertility, fetotoxicity), and birth defects based on animal data.

May cause cancer based on animal data.

May cause genetic (mutagenic) and tumorigenic effects (Sodium fluoride).

Special Remarks onother Toxic Effects on Humans:

Acute Potential Health Effects

Skin: Causes skin irritation and possible burns, especially if skin is wet or moist.

Eyes: Causes eye irritation and burns. May cause (chemical conjunctivitis and corneal damage.

Ingestion: harmful if swallowed. Causes digestive (gastrointestinal) tract irritation and burns. May cause severe and permanent damage to the digestive, Ingestion of large amounts may cause salivation, nausea vomiting and abdominal pain. May affect behavior, cardiovascular system, urinary system, liver brain, metabolism, teeth, bones and blood.

Inhalation: Causes irritation and chemical burns of the respiratory tract with coughing, breathing difficulty and possibly nasal septum perforation and coma. May affect bones.

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Chronic Potential Health Effects:

Chronic inhalation and ingestion may cause fluorosis with skeletal (bones and teeth) abnormalities. Chronic inhalation may cause lung damage. (Sodium Fluoride).

12-Ecological information

Sodium Fluoride Ecotoxicity:

Not available **BOD5 and COD:**

Not available

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of Biodegradation:

The product itself and its products of degradation are not toxic.

13-Disposal considerations

Dispose of materials in this kit according to Federal, State and Local Requirements.

14-Transport information

Land transport ARD / RID:

- ARD / RID class: Not regulated
- Danger code: Not regulated
- UN number: Not regulated
- Hazard label: Not regulated
- Description of goods: *Research Use Only* test kits

Inland waterways ADN / ADNR: Not regulated

Sea IMDG: Not regulated

Air CAO / IATA: Not regulated

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15-Regulatory information

US Classification and label Test

United States Regulatory Information

SARA Listed: No

16-Other information

Recommended use:

This product is an *Research Use Only* testing kit for animal testing and should only be used according to its package insert instructions.

Others:

The above information is based on data available to XpressBio and is believed to be correct. Since the information may be applied under conditions beyond the control of XpressBio and with which the company may be unfamiliar, XpressBio does not assume any responsibility for the results of its use and all persons receiving it shall make their own determination of the effects, properties, and protections, which pertain to their particular conditions.

No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the material, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material.
