

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : PanBlock ELISA Blocking Buffer
IUPAC name: -
Product number : BUF81201
CAS number:

Company : The Native Antigen Company
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Buffer is a mixture and the chemical identity and concentration or concentration ranges of all ingredients which are hazardous and are present above their cut-off levels include 1-10% sucrose (CAS# 57-50-1; EC# 200-334-9). Buffer also contains $\leq 0.1\%$ Sodium Azide (CAS #26628-22-8; EC #247-852-1) which is below the threshold for hazard classification. It also contains sodium chloride and phosphates which are below the threshold for hazard classification.

4. FIRST AID MEASURES

If inhaled: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

In case of skin contact: Wash skin thoroughly with soap and water for several minutes; continue to rinse for at least 15 minutes. Remove any contaminated clothing and shoes and wash thoroughly before reuse. Get medical attention if any discomfort continues.

In case of eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

If swallowed: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Do not induce vomiting without advice from medical professional. Get medical attention if any discomfort continues.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

None required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use with adequate ventilation. Personal protective equipment;

Respiratory: mask

Hand: protective gloves

Eye: chemical safety goggles

General hygiene measures

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Wear NIOSH approved respirator, chemical safety goggles, rubber boots and heavy rubber gloves. absorb on sand or vermiculite and place in closed containers for disposal. ventilate area and wash spill site after material pickup is complete. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage

Recommended storage temperature: 4C for long term, +4C for up to one month

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The liquid mixture is not in respirable form.

Contains Sucrose:

ACGIH TLV (United States, 3/2015)

TWA: 10 mg/m³ - 8 hours

EH40/2005 WELs (United Kingdom (UK), 12/2011)

STEL: 20 mg/m³ - 15 minutes

TWA: 10 mg/m³ - 8 hours

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin

Contains ≤ 0.1% Sodium Azide which is below the threshold for hazard classification. Contains sodium chloride and phosphates which are below the threshold for hazard classification, but may cause redness and irritation after prolonged exposure.

Personal protective equipment



Respiratory protection

Use with adequate ventilation and respiratory mask.

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Laboratory coat

Hygiene measures

Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Colourless liquid

Safety data

pH:	pH 7.1-7.6
Melting point:	no data available
Boiling point:	<100 °C @ 760 mm Hg
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	soluble

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Avoid multiple freeze thaw cycles

Materials to avoid

Avoid contact with strong acids and strong oxidizers

Hazardous decomposition products

Oxides of Nitrogen, Carbon Monoxide, Carbon Dioxide

Hazardous polymerization

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin corrosion/irritation

Prolonged skin contact may cause redness and irritation



Serious eye damage/eye irritation

May cause eye irritation

Respiratory or skin sensitization

May irritate mucous membranes and upper respiratory tract

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May cause coughing or mild irritation
Ingestion	May cause discomfort if swallowed
Skin	May cause skin irritation
Eyes	May cause temporary eye irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. No specific first aid measures noted, but first aid may still be required in case of accidental exposure, inhalation, or ingestion of this product. If in doubt, get medical attention promptly

Additional Information

12. ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

The product contains a substance which is harmful to aquatic organisms. However, at the concentrations present this product does not need to be classified as hazardous for the environment and the effects are not expected to be significant

13. DISPOSAL CONSIDERATIONS



Product

Observe all federal, state, and local environmental regulations. Can be disposed of down sink.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods, no transport limitations.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

None

Last update: 21 January 2019

Prepared by: The Native Antigen Company

Although the information, opinions and recommendations contained in this Safety Data Sheet are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information.