

SAFETY DATA SHEET

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

Product Name: Pasteurella Multocida Toxin, Active
IUPAC name: -
Product Number: REC31957-50
CAS number: 129876-91-1

Company: The Native Antigen Company Ltd.
Building B
Langford Locks
Kidlington
Oxfordshire
OX5 1LH
[Tel+44](tel:+441865595230) (0)1865 595230

E-mail address: contact@thenativeantigencompany.com

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

This product is derived from a recombinant ToxA with N-terminal 6xHis-tag expressed in E. coli. Sample is of biological origin and is presented as a liquid in a plastic vial. Each vial contains no more than 1000µg.

Additional components present: 50% glycerol, 5mM Tris-HCl (pH7.5), 0.1M NaCl.

4. FIRST AID MEASURES

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Wash off with soap and water.

In case of eye contact: Rinse at eyewash station.



If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Wear suitable PPE including gloves and eye protection. Respiratory protection is not required.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Sweep up and shovel. 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:

Short term: -20°C.

Long-term: -80°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

None necessary.

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

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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: 7.5
Melting point: no data available
Boiling point: no data available
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

Strong oxidizing agents

Hazardous decomposition products

None known

11. TOXICOLOGICAL INFORMATION

The LD50 in rats is 0.5 µg/kg when injected parenterally¹. Toxicity data for humans is not available.

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

¹ Cheville, N.F. and Rimler, R.B., Vet. Pathol. 26: 148-157, 1989.



Respiratory or skin sensitization

no data available

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**

no data available

Ingestion

Target organ(s): Liver and Lungs. No data available

Skin

no data available

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information**12. ECOLOGICAL INFORMATION****Toxicity**

No data available

Persistence and degradability

Degrades easily

Bioaccumulative potential

Low

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

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.

UN number	ADR/RID: 3462 IMDG: 3462 IATA: 3462
UN proper shipping name	ADR/RID: TOXINS EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Pasteurella multocida toxin)
IMDG:	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Pasteurella multocida toxin)
IATA:	Toxins, extracted from living sources, solid, n.o.s. (Pasteurella multocida toxin)
Transport hazard class(es)	ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
Packaging group	ADR/RID: I IMDG: I IATA: I
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available

15. REGULATORY INFORMATION

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Neither banned nor restricted

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Neither banned nor restricted

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): This product does not contain substances of very high concern

(Regulation (EC) No 1907/2006 (REACH), Article 57). This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr.1907/2006. Listed substance / Sunset Date: After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Neither banned nor restricted

Regulation (EC) No 850/2004 on persistent organic pollutants: Neither banned nor restricted

16. OTHER INFORMATION

None

Last updated: 09/04/2021

Prepared by: The Native Antigen Company



www.thenativeantigencompany.com
VAT No: 102038475

contact@thenativeantigencompany.com
Registration No. 7386339

Page 5 of 6

The Native Antigen Company is now part of LGC Group.

Science for a Safer World

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.