

Biotechnologies Ulysse

SAFETY DATA SHEET

1 - IDENTIFICATION

Product identifier:	ÉRA N-Fix
Other means of identification:	UB-5100
Recommended use:	May increase the fixation of atmospheric nitrogen to provide the plant with a consistent supply.
Restriction on use:	For professional use only.
Manufacturer:	BIOTECHNOLOGIES ULYSSE inc. 3550 boulevard L.-P.-Normand, suite 1 Trois-Rivières, Qc., Canada G9B 0G9
Phone No.:	819-668-3823 (8AM to 5PM)
Emergency phone No.:	Centre antipoison du Québec (24 hour service) Québec : (800) 463-5060

2 - HAZARD IDENTIFICATION

Product classification:	Not classified as hazardous.
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3 - COMPOSITION/INFORMATIONS ON INGREDIENTS

Substance/concoction: Mix

Based on current knowledge of the supplier and within application concentrations, no ingredients present are classified as hazardous to health or the environment and hence require reporting in this section.

4 - FIRST-AID MEASURES

Description of first-aid measures:

Skin contact: Wash with plenty of water and soap. Get medical advice if symptoms develop.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice in case of discomfort.

Ingestion: Rinse mouth. Get medical advice if symptoms develop.

Most important acute or delayed symptoms and effects:

Skin contact: No Expected Effects.

Eye contact:	No Expected Effects.
Ingestion:	No Expected Effects.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media :	None known.
Specific hazards arising from the product :	None known.
Special protective equipment and precautions for fire-fighters :	In case of fire, use standard protection equipment (self-contained breathing apparatus, mask, gloves, etc.). The product is not a fire accelerator.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures :

Latex or nitrile gloves are recommended for spills.

Methods and materials for containment and cleaning up :

Absorb liquids with non-combustible and nontoxic absorbent and place it in a reclosable, well-identified container. Eliminate the container in accordance with local authority. Rinse affected zone with water.

7 - HANDLING AND STORAGE

Precautions for safe handling :

Manipulate with care and avoid splashes. Avoid contact with skin and eyes. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been open must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Professional exposure limit values:	No exposure limit value known.
Biological exposure index:	No exposure index known.

Appropriate engineering controls:	Ensure sufficient ventilation to avoid exposure problems.
<u>Individual protection measures:</u>	
Respiratory protection:	Not necessary.
Skin protection:	Not necessary.
Eye/Face protection:	Not necessary.
<u>Hygiene measures :</u>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid
Color :	Pale brown
Odour:	Slightly acidulated
Odour threshold:	No data available
pH:	4.0 – 4.5
Melting point/freezing point:	No data available
Initial boiling point/range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Lower flammability or explosive limit:	No data available
Upper flammability or explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	Complete in water
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available

10 - STABILITY AND REACTIVITY

Reactivity :	Not reactive under standard conditions of use.
Chemical stability :	The product is stable.
Possibility of hazardous reactions :	No risk of hazardous reaction known.
Conditions to avoid :	None known.

Incompatible materials :	None known.
Hazardous decomposition products :	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 - TOXICOLOGICAL INFORMATION

Likely routes of exposure :	Eyes, skin, ingestion and inhalation.
Acute toxicity :	None known under standard conditions of use.
Skin corrosion/irritation :	Causes skin irritation.
Serious eye damage/irritation :	Causes serious eye damages.
Respiratory and/or skin sensitization :	No known effects.
Specific organ toxicity :	No known effects.
Carcinogenicity :	Not known to be carcinogenic.
Reproductive toxicity :	No known effects.
Germ cell mutagenicity :	Not known to be mutagenic.

12 - ECOLOGICAL INFORMATION

Marine and land ecotoxicology :	No data available.
Persistence and degradability :	Organic ingredients readily biodegradable according to OECD criteria (series 301 A to F).
Bioaccumulative potential:	Not bioaccumulative.
Mobility in soil:	Not available.
Other adverse effects:	No known effects.

13 - DISPOSAL CONSIDERATIONS

Disposal methods:	Dispose of contents and container in accordance with local regulations. If the container is rinsed, promote recycling of the container.
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14 - TRANSPORT INFORMATION

UN No.:	Not regulated.
Proper shipping name:	Not available.
Transport hazard class(es):	Not regulated.
Packing group:	Not regulated.
Environmental hazards:	Not available.

Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code:

Not available.

Special precautions:

Ensure that containers are securely fastened in the truck and that the driver knows what to do in the event of an accident or spill.

15 - REGULATORY INFORMATION

The product classification and SDS were developed in accordance with the Hazardous Products Regulation HPR of Canada.

16 - OTHER INFORMATION

Written by: Regulatory Department of Ulysses Biotechnologies inc.

Phone No.: 819-668-3823 (8:00 à 17:00)

Date of preparation: 2024-04-09

Notice to reader :

The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. The information contained herein is based on the state of our current knowledge of the product concerned. It is the user's responsibility to verify the value of this information for the adoption of required safety measures. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the Safety Data Sheet he owns is the last published.