SAFETY DATA SHEET

1 - IDENTIFICATION

Product identifier:	Éra Clean – Acid LF
Other means of identification:	UB-7020
Recommended use:	Concentrated acid cleaning and descaling agent for removing stubborn inorganic deposits from piping systems during cleaning in-place process.
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 :

Corrosive to metals – Category 1

Serious eye damage – Category 1

Hazard pictograms :

Signal word : Danger.

Hazard statement :

H290 – May be corrosive to metals

H314 - Causes severe skin burns and eye damage

<u>Precautionary statements</u> :

Prevention :

P234 – Keep only in original packaging.

P264+P265 – Wash hands thoroughly after handling. Do not touch eyes.

P280 – Wear eye protection.

Response :

P390 – Absorb spillage to prevent material damage.

P305+P354+P338– IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P317 – Get medical help.

Disposal : P501 – Dispose of contents and container in accordance with local, regional, national and international regulations.

3 - COMPOSITION/INFORMATIONS ON INGREDIENTS

Substance/concoction: Mix

Chemical name	Common name and synonyms	CAS number	Concentration (% v/v)
Urea	Urea	57-13-6	3 – 7
Hydrochloric acid	Hydrochloric acid	7647-01-0	1 – 5

Actual concentration or concentration range is withheld as a trade secret.

Based on current knowledge of the supplier and within application concentrations, no other 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:

Eye contact: Seek medical help. Immediately rinse the eyes with plenty of water, lifting the upper and lower eyelids from time to time. Check to see if the victim is wearing contact lenses and if so, remove them. Continue to rinse for at least 20 minutes. Chemical burns should be treated promptly by a doctor.

Most important acute or delayed symptoms and effects:

Eye Contact: Watery eyes, redness, pain, swelling of the tissues.

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:

Do not take any action involving personal risk or in the absence of adequate training. Evacuate the area. Prevent access to unauthorized or unprotected individuals. Do not touch or walk in the spilled product. Wear protective gloves, clothing, and face protection equipment.

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 eyes. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Store in the original container away from sunlight, in a dry, cool, and well-ventilated area, away from incompatible substances (see Section 10), food, and drink. Separate from bases. Keep the container tightly closed when not in use. Open containers should be carefully resealed and kept upright to prevent leaks. Do not store in unlabelled containers. Use appropriate container to prevent environmental contamination. Refer to Section 10 for incompatible materials before handling or use.

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.

Individual protection measures:

Respiratory protection: Not necessary if room is well ventilated.

Hand protection: Nitrile or latex glove. When handling chemicals, always wear tight-fitting gloves resistant to chemicals that comply with an approved standard. Considering the parameters indicated by the glove manufacturer, ensure that the gloves maintain their protective properties during use. It should be noted that the breakthrough time for any material used in gloves may vary for different glove manufacturers. In the case of mixtures

	consisting of several substances, the duration of glove protection cannot be accurately assessed.
Body protection:	Personal protective equipment for the body must be suitable for the task performed and the risks involved.
Eye/Face protection:	Wear safety glasses with side shields.
Hygiene measures :	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 :	Transparent ; pale yellow
Odour:	Slightly acidic
Odour threshold:	No data available
pH:	0.2 – 0.8
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 :	Do not mix with bases.
Conditions to avoid :	None known.

Incompatible materials :	Alkalis.
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, and ingestion.
Acute toxicity :	None known under standard conditions of use.
Skin corrosion/irritation :	No known effects.
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 :	Not 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.

14 - TRANSPORT INFORMATION

UN No.:	UN3265
Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Urea Monohydrochloride)
Transport hazard class(es):	8

Packing group:	III
Environmental hazards:	None.

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:	2024-07-31

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.