

LIVOTON PFA

PROTEIN FOAMING AGENT FOR CELLULAR CONCRETE

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE COMPANY/ UNDERTAKING

1.1. Product identifier

Product name :PROTEIN FOAMING AGENT LIVOTON PFA

1.2. Relevant identified uses of the substance or mixture and uses advised against
N/A

1.3. Details of the supplier of the safety data sheet

Manufacturer: LICHTWEICHT CONCRETE TECHNOLOGIES LLC
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SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

EUH210

Safety data sheet available on request.

2.3. Other hazards

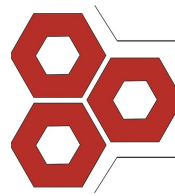
The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Colloidal surfactants.

Components	CAS No.
Water	7732-18-5
Protein Hydrolysate	69430-36-0
Inorganic Salts	No single CAS # applicable
Ferrous Sulfate	7720-78-7
Bactericide	55965-84-9



SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of swallowing :

Seek medical attention, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker:

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Fire prevention: Prevent access by unauthorised personnel.

Recommended equipment and procedures : For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

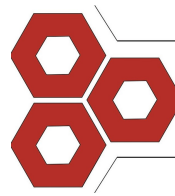
No eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature - 5 ° C to + 30 ° C. Keep away from heat!

7.3. Specific end use(s)

MATERIAL SAFETY DATA SHEET



LIVOTON
PROTEIN FOAMING AGENT

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat or drink during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical and chemical properties tested for

Appearance	The liquid is dark brown, without foreign inclusions
The presence of sediment	$\leq 1\%$
Density,	$1,07 \pm 0.05 \text{ g/cm}^3$
Multiplicity of foam	at least 15
Workability	from $+1 \text{ }^\circ\text{C}$
The pH-value	7.0 ± 1.0
Shelflife, months	approx. 12 month from date of production if stored properly
Storage conditions	Store in unopened, original sealed packaging between $-5 \text{ }^\circ\text{C}$ and $+30 \text{ }^\circ\text{C}$. Protect from direct sunlight.

SECTION 10 : STABILITY AND REACTIVITY

Thermal decomposition:

The product does not support combustion.

Hazardous decomposition products:

Under ordinary conditions: no

Thermal decomposition: no

Conditions to avoid: high temperature

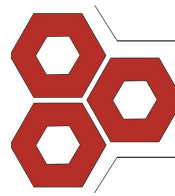
Conditions to avoid: acids and bases

SECTION 11 : TOXICOLOGICAL INFORMATION

The properties of the individual components are not described.

Primary cutaneous effects are not annoying

The initial impact on the mucous does not irritate



SECTION 12 : ECOLOGICAL INFORMATION

Removability: The product should not enter without prior treatment in sewage treatment plants, the environment or water.

The product may be removed from water absorption treatment by activated sludge plants.

Comply with local regulations for drainage.

Ecotoxicity: The properties of the individual components are not described

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods.

Do not pour into drains or waterways.

Waste : Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Non-dangerous goods according to transport regulations

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

SECTION 15 : REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Classification and labelling information included in section 2: The following regulations have been used:

- EU Regulation No. 1 272/2008 amended by EU Regulation No. 201 6/1 1 79. (ATP 9)

- Container information: No data available.

- Particular provisions : No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 2 (VwVwSvom 27/07/2005, KBws) : Hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704):

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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