SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product name: **BIOSWEEP Z**

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

Ready-to-use detergent – enzymatic cleaning and degreasing solution – professional use.

Use descriptor system (REACH):
SU22 (Professional uses)

1.3. Details of the supplier of the safety data sheet

Registered company name:	OXY'PHARM
Address:	829 Rue Marcel Paul, 94500 Champigny sur Marne, FRANCE.
Phone:	+33.1.45.18.78.70
E-mail :	commercial@oxypharm.net

http://www.oxypharm.net/

1.4. Emergency telephone number:

Country	Emergency telephone number	Website
UK - England, Wales	111	http://www.nhs.uk/
UK - Scotland	111	http://www.nhs24.com/
UK - Northern Ireland	18000 or 999	http://www.gpoutofhours.hscni.net/
Ireland	01 809 2166	http://www.poisons.ie/

Other emergency numbers

In case of emergency, call nearest poison center or 112.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with Regulation (EC) No.1272/2008 and its amendments.

Eye irritation, Category 2 (Eye Irrit. 2, H319).

May produce an allergic reaction (EUH208).

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 an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with Regulation (EC) No.1272/2008 and its amendments.

Hazard pictograms:

Signal Word: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Additional labelling:

EUH208 Contains protease (subtilisine). May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) as defined by criteria of article 57 of REACH (Regulation EC No.1907/2006) at concentration ≥ 0.1% - list published by the European CHemicals Agency (ECHA) as per article 59 of REACH: (http://echa.europa.eu/fr/candidate-list-table).

The mixture does not contain any PBT or vPvB substances as defined in annex XIII of the REACH Regulation (EC) No.1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable (mixture).

3.2. Mixtures

Composition:

INDEX	CAS No.	CE No.	Name	Pictogram	Classification	% w/w
607-002-00-6	64-19-7	200-580-7	Acetic acid*/**	GHS02 GHS05 Danger	H226 H314	x < 5
647-012-00-8	9014-01-1	232-752-2	Protéase (Subtilisine) (aep)*	GHS05 GHS07 GHS08 GHS09 Danger	H302 H315 H318 H334 H335 H400 H411	x < 1
-	34590-94-8	252-104-2	Dipropylene glycol monomethyl ether*	-	Not classified	x < 10

* Substance for which a workplace exposure limit exists.

** Specific limits: H314 (1A): 25 % ≤ C < 90 %
H314 (1B): C ≥ 90 %
H315: 10 % ≤ C < 25 %
H319: 10 % ≤ C < 25 %

Other data:

No data available.

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing if the victim is unconscious.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In case of discomfort, remove the exposed person to fresh air. Keep warm and at rest. Consult a doctor if symptoms appear.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water holding the eyelids open. Consult an ophthalmologist.in case of pain, redness or visual impairment.

In the event of splashes or contact with skin:

Remove any soiled or splashed clothing immediately. Wash skin with soap and water. Consult a doctor if symptoms (redness, irritation) appear.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Keep the exposed person at rest. Do not induce vomiting. Consult a doctor showing the label.

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

No data available for the product.

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

Specific and immediate treatment:

No data available.

Information for the doctor:

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:
- sprayed water or water mist
- foam
- multipurpose ABC powder / BC powder
- carbon dioxide (CO_2)

Unsuitable methods of extinction

In the event of a fire, do not use:
- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.
In the event of a fire, the following may be formed:
- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult safety advice of sections 7 and 8.

For non first aid worker

Avoid any contact with the eyes. Avoid breathing spray/aerosol.
In case of accidental release of large quantities, evacuate staff and allow access only to trained operators equipped with self-contained breathing apparatus.
Ensure adequate ventilation.

For first aid worker

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

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with detergent, avoid the use of solvents.

6.4. Reference to other sections

Refer to sections 8 and 13.

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.
Remove and wash contaminated clothing before re-using.
Ensure adequate ventilation, especially in confined areas.

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.
Avoid any contact with the eyes.
Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

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

7.2. Conditions for safe storage, including any incompatibilities

Storage/Packaging

Keep in original container tightly closed in a dry, well-ventilated area at ambient temperature between 5° and 30°C.
Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

CAS No.	CE No.	Name	Country	Occupational exposure limits	Source
64-19-7	200-580-7	Acetic acid	UK	**Limit value (8h) = 10 ppm - 25 mg/m^3 ** value (short term) = 15 ppm – 37 mg/m^3	GESTIS ILV
			Ireland	Limit value (8h) = 10 ppm - 25 mg/m^3 Limit value (short term)* = 15 ppm – 37 mg/m^3	GESTIS ILV
			EU	Limit value (8h) = 10 ppm – 25 mg/m^3 Limit value (short term)* = 20 ppm – 50 mg/m^3	GESTIS ILV
9014-01-1	232-752-2	Protéase (aep) (Subtilisine)	UK	Limit value (8h) = 0.00004 mg/m^3	GESTIS ILV
			Ireland	Limit value (8h) = 0.00006 mg/m^3 Limit value (short term)* = 0.00006 mg/m^3	
34590-94-8	252-104-2	Dipropylene glycol monomethyl ether	UK	Limit value (8h) = 50 ppm – 308 mg/m^3	GESTIS ILV
			Ireland	Limit value (8h) = 50 ppm – 308 mg/m^3	GESTIS ILV
			EU	Limit value (8h) = 50 ppm – 308 mg/m^3	2000/39/CE

*15 minutes reference period
** The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but were omitted from editions published from 2005 onwards.

Biological limits:
No data available.

Derived no effect level (DNEL) or derived minimum effect level (DMEL):
Protease (aep) (CAS No.9014-01-1):
Worker:
Dermal / acute toxicity – local effects: DNEL = 0.2% m/m in mixtures
Inhalation / long term toxicity – local effects: DMEL = 60 ng/m^3
Consumer:
Dermal / acute toxicity – local effects: DNEL = 0.2% m/m in mixtures
Inhalation / long term toxicity – local effects: 15 ng/m^3

Predicted no effect concentration (PNEC):
Protease (aep) (CAS No.9014-01-1):

Fresh water:	0.06 µg/L
Marine water:	0.006 µg/L
Sewage treatment plant:	65 000 µg/L

8.2. Exposure controls

Suitable technical inspections:
Ensure adequate ventilation, especially in confined areas.

Personal protection measures, such as personal protective equipment
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, drink or smoke during use. Remove and wash contaminated clothing before re-using.
Ensure adequate ventilation, especially in confined areas.

- Eye / face protection
Avoid contact with eyes.
Before handling, wear safety goggles with protective sides accordance with standard EN166.

- Hand protection
Avoid contact with skin.
Use suitable protective gloves in accordance with standard EN374 in case of repeated or prolonged exposure.

- Body protection
Avoid contact with skin.
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.

- Respiratory protection
Ensure adequate ventilation, especially in confined areas.
Avoid breathing spray/aerosol.

- Thermal risks
Not applicable.

Exposure controls linked to environmental protection
No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:	Liquid (fluid)
Odour:	Slight odour, acetic
Colour:	Clear amber

Important health, safety and environmental information

pH (mixture):	3.5 ± 0.5
Melting point/melting range:	Not determined
Freezing point:	Not determined
Boiling point/boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability:	Not determined
Lower/upper flammability limits:	Not determined
Lower/upper explosive limits:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Density:	Not determined
Solubility:	Not determined
Octanol/water partition coefficient:	Not determined
Self-ignition temperature:	Not determined
Decomposition point:	Not determined
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined

9.2. Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide, carbon dioxide fumes, nitrogen oxides.

10.4. Conditions to avoid

Avoid high temperatures.

10.5. Incompatible materials

Oxidising agents, acids, bases, alcohols, light metals, nitric acid and non precious metals.

10.6. Hazardous decomposition products

The thermal decomposition may release/form

- carbon monoxide (CO)
- carbon dioxide (CO_2)

SECTION 11: TOXICOLOGICAL INFORMATION

Splashes in the eyes may cause irritation and reversible damage

11.1. Information on toxicological effects

11.1.1. Substances

Not applicable (mixture).

11.1.2. Mixture

No toxicological data available for the mixture.

The product is classified as eye irritant (Eye irritation, Category 2 (Eye Irrit. 2, H319), classification by conventional calculation method).

Acute toxicity:

The product is not classified (conventional method by calculation).

Skin corrosion/skin irritation:

The product is not classified (conventional method by calculation).

Acetic acid (CAS No.64-19-7):

H314 (1A): 25 % ≤ C < 90 %
H314 (1B): C ≥ 90 %
H 315: 10 % ≤ C < 25 %

Serious damage to eyes/eye irritation:

The product is classified as eye irritant (Eye irritation, Category 2 (Eye Irrit. 2, H319), classification by conventional calculation method).

Acetic acid (CAS No.64-19-7):

H314 (1A): 25 % ≤ C < 90 %
H314 (1B): C ≥ 90 %
H319: 10 % ≤ C < 25 %

Respiratory or skin sensitisation:

The product is not classified (conventional method by calculation).

Germ cell mutagenicity:

The product does not contain any substance classified for this hazard.
The product is not classified (conventional method by calculation).

Carcinogenicity:

The product does not contain any substance classified for this hazard.
The product is not classified (conventional method by calculation).

Reproductive toxicant:

The product does not contain any substance classified for this hazard.
The product is not classified (conventional method by calculation).

Specific target organ systemic toxicity - single exposure:

The product is not classified (conventional method by calculation).

Specific target organ systemic toxicity - repeated exposure:

The product does not contain any substance classified for this hazard.

The product is not classified (conventional method by calculation).

Aspiration hazard:

The product does not contain any substance classified for this hazard.
The product is not classified (conventional method by calculation).

Symptoms related to the physical, chemical and toxicological characteristics

No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

Interactive effects

No data available.

Absence of specific data

No data available.

Other information

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

Not applicable (mixture).

12.1.2. Mixture

No aquatic toxicity information is available for the mixture.

This mixture is not classified as hazardous for the environment (conventional method by calculation)).

Protease (aep) (CAS No.9014-01-1):

Daphnia: EC_{50} (48 h): 586 µg aep/L (OECD No.202)

Fish: LC_{50} (96 h): 8.2 mg aep/L (OECD No.203)

Algae: E_rC_{50} (72 h): 830 µg aep/L (OECD No.201)

12.2. Persistence and degradability

Acetic acid (CAS No.64-19-7): readily degradable.

Protease (aep) (CAS No.9014-01-1): readily degradable (OECD No.301B).

12.3. Bioaccumulative potential

No data available for the mixture.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The mixture does not contain any PBT nor vPvB substance.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC, Decision 2014/955/EU and Directive (EU) 2015/1127.

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:

Completely empty container. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

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:
- Regulation EC No.1272/2008 and its modifications

Container information:

No data available.

Particular provisions:

No data available.

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.

Wording of the phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations:

aep : active enzymatic proteine

PBT: Persistent, bioaccumulable and toxic.

vPvB: Very persistent, very bioaccumulable.

SVHC: Substances of very high concern.

Revision:

A vertical line in the left margin indicates a change to the previous version.
This version replaces all previous versions.