



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : MICRO 10 ENZYME
Product code : 1688000

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

Cleaning and disinfection of instrumentation

1.3. Details of the supplier of the safety data sheet

Registered company name : UNIDENT S.A. - ANIOS Int' Dental Group.
Address : Rue François-Perreard 4 - Case postale 142.CH-1225.CHENE-BOURG.SUISSE.
Telephone : +41 22 839 79 00. Fax : +41 22 839 79 10.
e:mail : fds@anios.com
www.unident.ch

1.4. Emergency telephone number : 145 ou +41 1 251 51 51.

Association/Organisation : CSIT (Tox) / STIZ (Tox-Zentrum) / STIC (The Tox).

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Possibility of irritation to the eyes and skin.
May produce an allergic reaction.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Detergent mixture (see section 15).
This mixture being intended for professional use only, the labelling for contents under detergent regulation does not appear on the label but is resumed in section 15

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Irritant



Dangerous for the environment

Contains :

Contains CAS 27083-27-8 POLYHEXAMETHYLENE BIGUANIDE HYDROCHLORIDE. May produce an allergic reaction.

Risk phrase :

R 50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 36/38

Irritating to eyes and skin.

Safety phrase :

S 61

Avoid release of undiluted product to the environment. Refer to special instructions/Safety data sheets.

S 37

Wear suitable gloves.

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 46

If swallowed, seek medical advice immediately and show this container or label.

S 2

Keep out of the reach of children.

S 60

This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

No other hazard identified in the current state of knowledge.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Not applicable

3.2. Mixtures**Composition :**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 94667-33-1 N,N-DIDECYL-N-METHYL -POLY(OXYETHYL)AMMONIUM PROPIONATE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10	C,N C;R34 Xn;R22 N;R50/53		2.5 <= x % < 10
CAS: 14960-06-6 EC: 239-032-7 SODIUM N-LAURYL B-IMINODIPROPIONATE	GHS07 Wng Eye Irrit. 2, H319	Xi Xi;R36		2.5 <= x % < 10
CAS: 25322-68-3 ETHANE-1,2-DIOL,HOMO POLYMER			[1]	0 <= x % < 2.5
CAS: 75-75-2 EC: 200-898-6 REACH: 01-2119491166-34 METHANESULPHONIC ACID	GHS05 Dgr Met. Corr. 1, H290 Skin Corr. 1B, H314	C C;R34		0 <= x % < 2.5
CAS: 27083-27-8 POLYHEXAMETHYLENE BIGUANIDE HYDROCHLORIDE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10	Xn,N Xn;R22 Xi;R43-R41-R37/38 N;R50/53		0 <= x % < 2.5

Information on ingredients :

Title for H, EUH and R indications: see § 16.

[1] Substance for which maximum workplace exposure limits are 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 by an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

Move the person away from the place of exposure and take him/her outside.

In the event of splashes or contact with eyes :

If applicable, remove contact lenses.

Wash thoroughly with soft clean water for 15 minutes, holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist. Show this container or label.

In the event of splashes or contact with skin :

Remove all contaminated or stained clothing immediately. Do not use them again until they have been decontaminated.

Rinse immediately and thoroughly with water.

In the event of skin irritation, seek medical advice. Show this container or label.

In the event of swallowing :

Rinse out the mouth, do not allow to drink, do not induce vomiting. Calm the person down and transfer immediately to hospital or doctor. Show the label to the doctor.

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

Cf. § 11

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

Refer to the recommendation of the doctor.

SECTION 5 : FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction

Any extinguishing agents are authorized: foam, sand, carbon dioxide, water, powder.

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.

5.3. Advice for firefighters

Use autonomous insulating breathing apparatus and a full protective suit.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 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.

Do not get rid in natural spaces (waterways, ground and vegetations...)

6.3. Methods and material for containment and cleaning up

Absorb any spilled product with absorbent non-combustible materials, and sweep away or remove with a shovel. Put any waste in drums for disposal. Do not mix with any other waste. Wash the contaminated surface thoroughly with water.

Do not collect the product for re-use.

6.4. Reference to other sections

Disposal considerations: see section 13.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Product for external use - do not swallow.

Avoid all contact with skin or eyes.

Handle in accordance with user instructions on label

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Water source nearby.

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed

Store ONLY in the original package.

Store between + 5 °C and + 35 °C in a dry, well ventilated place

Do not use after the expiry date mentioned on the packaging.

Keep out of the reach of children

7.3. Specific end use(s)

For professional use only

Refer to paragraph 1 for product indication

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this chapter refers to the product specifically described in this document. If the product is handled and/or exposed simultaneously with other chemical agents, these must be taken into consideration when choosing personal safety equipment.

The Exposure Threshold Limit Value and the Average Exposure Value given below are quoted by the CAS number of the substance. Paragraph 3 details the chemical name corresponding to the CAS number.

8.1. Control parameters**Occupational exposure limits :**

Slovakia (Regulation No. 300/2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
25322-68-3		1000 mg/m3	IV.		

8.2. Exposure controls**Suitable technical inspections**

Ensure the rooms are well-ventilated. Atmospheric concentrations at the workplace must not exceed the limit values given for normal conditions of use.

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 that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Prescription glasses are not considered as protection.

Make safety goggles with side protection available to the personnel.

Provide eye washes in workshops.

If necessary, the nearest water supply

- Hand protection

When handling this product, wear suitable gloves.

Nitrile, latex or vinyl gloves.

Gloves must be replaced immediately if they show signs of wear and tear.

- Respiratory protection

Not applicable in normal conditions of use.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	fluid liquid.
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Important health, safety and environmental information

	neutral.
pH :	6.00 .
Boiling point/boiling range :	not specified.
Flash point interval :	not relevant.
Vapour pressure (50°C) :	not relevant.
Density :	+/- 1.1
Water solubility :	Soluble.
Melting point/melting range :	not specified.
Self-ignition temperature :	not specified.
Decomposition point/decomposition range :	not specified.

9.2. Other information

Colour :	Orange
Odour :	Perfumed

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No hazardous reaction if the instructions/indications for storage and handling are respected.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Cf. § 10.1 and 10.2

10.4. Conditions to avoid

Avoid :
- frost

10.5. Incompatible materials

Do not mix with other products.

10.6. Hazardous decomposition products

At high temperatures, dangerous decomposition products may be produced, such as fumes, carbon dioxide and carbon monoxide, nitrogen oxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Substances

Not specified

11.1.2. Mixture

The toxicological data of the mixture (resulting from studies or in accordance with conventional methods) are outlined below.

Acute toxicity :

Inhalation may lead to irritation of the respiratory tracts.

Ingestion may lead to irritation of the digestive system, abdominal pain, headaches and nausea.

Skin corrosion/skin irritation :

Skin irritation: itching, light to moderate local redness, burning sensation...

Serious damage to eyes/eye irritation :

Ocular irritation: notably redness of the conjunctiva and lacrimation.

Other information

The preparation contains sensitizing enzymes by inhalation without inducing the classification of the preparation.

SECTION 12 : ECOLOGICAL INFORMATION

Following information is based on data from the compounds.

Avoid any product release into waterways.

12.1. Toxicity

12.1.2. Mixtures

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(according to the conventional method of calculation included in the directive 99/45/CE)

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

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.

Do not pour into waterways.

The packages must not be reused.

13.1. Waste treatment methods

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.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

18 01 06 * chemicals consisting of or containing dangerous substances

For information :

The following waste code is given for indicative purposes only.

The waste code must be determined by the user, according to the application of the product.

18 = Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2011).

14.1. UN number

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(n,n-didecyl-n-methyl-poly(oxyethyl)ammonium propionate, polyhexamethylene biguanide hydrochloride)

14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

14.5. Environmental hazards

- Environmentally hazardous material :

**14.6. Special precautions for user**

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 601	E1	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	9	-	III	5 L	F-A,S-F	274 335	E1			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	9	-	III	964	450 L	964	450 L	A97 A158	E1	
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Particular provisions :**

No data available.

- Labelling for detergents (EC Regulation No. 648/2004, 907/2006) :

- 5 % or over but less than 15 % : amphoteric surfactants
- 5 % or over but less than 15 % : nonionic surfactants
- enzymes
- disinfectants

- perfumes

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.

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.

It is recommended that the information contained in this safety data sheet is provided to the users, if necessary in an appropriate form.

This information relates to the specifically designated product and may not be valid in combination with any another product. The product must not be used for applications other than those specified in heading 1 without having first obtained written handling instructions.

Title for H, EUH and R indications mentioned in section 3 :

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
R 22	Harmful if swallowed.
R 34	Causes burns.
R 36	Irritating to eyes.
R 37/38	Irritating to respiratory system and skin.
R 41	Risk of serious damage to eyes.
R 43	May cause sensitisation by skin contact.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.