

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: **Optizyme Ultra D**
Uses: A multi-enzyme detergent sanitiser with powerful cleaning. For use in the manual (sink), ultrasonic bath and auto-washer cleaning and sanitising of reusable dental and medical instruments.
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to GHS:

Eye damage category 1, Skin irritation category 2, Acute oral category 5.

2.1.2 Additional information:

For full text Hazard- and EU Hazard-statements: see SECTION 15 and SECTION 16

2.2 Label elements

Labelling according to GHS.

Pictogram:



Signal word: DANGER

Hazard statements:

H315: Causes skin irritation

H318: Causes serious eye damage

H303: May be harmful if swallowed

Precautionary statements:

P261: Avoid breathing mist, spray and vapours

P262: Do not get in eyes, on skin, or on clothing

P264: Wash hands thoroughly after handling.

P280: Wear gloves and eye 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: If eye irritation persists:

P310: Immediately call a POISON CENTER/doctor.

P302+352: IF ON SKIN: Wash with plenty of water

P362: Take off contaminated clothing.

P332+313: If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards

Contains enzymes. May produce an allergic reaction on prolonged contact. Slippery when spilled.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Material	CAS number	Level (%)	GHS /CLP (EC) No. 1272/2008 Classification
Boric acid	10043-35-3	0.2 – 0.5	Repr. 1B. Not classified at this concentration
Protease as pure enzyme protein	9014-01-1	0.1 – 0.2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens.1, H334 STOT SE 3, H335 Not classified at this concentration
Lipase as pure enzyme protein	9001-62-1	0.0001 – 0.0002	Not classified
Endocellulase as pure enzyme protein	9012-54-8	0.0002 – 0.0006	Resp. Sens. 1, H334 Not classified at this concentration
Alpha-amylase as pure enzyme protein	9000-90-2	0.01 – 0.02	Resp. Sens. 1, H334 Not classified at this concentration
Ethoxylated alcohol	68439-50-9	2- 5	Eye damage 1, H318
Benzalkonium chloride	68424-85-1	1 - 2	Acute tox 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400
Water		To 100%	-

SECTION 4: FIRST AID

- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, get medical advice/attention.
- Swallowed: Immediately rinse mouth and drink plenty of water. Seek medical attention if symptoms persist.
- Skin contact: Remove contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
- Inhalation: Remove from contaminated area. Move to fresh air, rest patient. If required, seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

Non-flammable. Will not promote combustion.

SECTION 6: SPILLAGE ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures:

P281 - Use personal protective equipment as required, see section 8

P261 - Avoid breathing mist, spray, vapours.

P262 - Do not get in eyes, on skin, or on clothing

6.1.1. For non-emergency personnel

Protective equipment:

Wear protective gloves and eye/face protection. For further information refer to Section 8 "Exposure controls/personal protection".

Emergency procedures:

Stop leak if safe to do so. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment:

Equip clean-up crew with protection equipment specified in Section 8.

Emergency procedures:

Ventilate area.

6.2. Environmental precautions

Not applicable

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Avoid high pressure rinsing. Do not use cleaning methods that will generate aerosol.

Spilled concentrate should be removed as soon as possible.

Comply with applicable local, national and international regulation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Residue may be washed down with water. Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation.

6.4. Reference to other sections

Section 8. Exposure controls and personal protection

SECTION 7: HANDLING AND STORAGE

Store upright in a cool, dry area, out of direct sunlight. Keep containers closed when not in use.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limits

Subtilisin 0.04 µg/m³ WEL 8 hour TWA

Cellulase 0.06 µg/m³ WEL 8 hour TWA
 Lipase 0.06 µg/m³ WEL 8 hour TWA
 Amylase 0.06 µg/m³ WEL 8 hour TWA
 Borate ion: 1 mg/m³ WEL 8 hour TWA

8.2. Exposure controls

These measures are recommended on the basis of common application methods and may not be appropriate to all potential applications of the product. The user is responsible for carrying out a full risk assessment for their specific processes and systems of work.

Eye protection: Wear eye protection to EN 166 1F if splashing is likely.

Hand protection: Wear nitrile or neoprene gloves. Exact choice of glove depends on specific risk assessments.

Body protection: As necessary to prevent contact.

Respiratory protection: Use in a well-ventilated area. Avoid breathing vapour or spray. Wear a respirator if necessary.

Other protection: N/A

Personal protective equipment:



Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Environmental protection: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	A clear to slightly hazy blue liquid
Boiling point:	>100°C (>212°F)
Vapour pressure:	Not available
Density @ 20°C	1.02 – 1.15 g/mL
Solubility in water:	Soluble
Reactivity in water/air:	Not reactive
Incompatibility (materials to avoid):	None known
pH:	7.0-8.5
Flash point:	Non flammable

SECTION 10: STABILITY AND REACTIVITY

This material is stable under normal conditions of use and non-reactive.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicology of these solutions has not been performed as a whole. According to GHS this solution is classified as eye category 1, skin irritation category 2, and acute oral category 5

None of the ingredients are listed in the IARC (International Agency for Research on Cancer) list of carcinogens.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity study of this preparation is not available; however, all the ingredients in this product are readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional regulation. Dispose of via sewerage only ensuring the concentrated formulation does not enter waterways.

SECTION 14: TRANSPORT INFORMATION

The product is not classified as dangerous goods.

SECTION 15: REGULATORY INFORMATION

All the ingredients are listed in the AICS (Australian Inventory of Chemical Substances), TSCA (Toxic Substance Control Act), and EINECS (European Inventory of Existing Commercial Substances) or exempted.

SECTION 16: OTHER INFORMATION

GHS Hazard statements on ingredients:

- H315: Causes skin irritation
- H318: Causes serious eye damage
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335: May cause respiratory irritation
- H360: May damage fertility or the unborn child

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Novapharm Research Australia Pty Ltd, on +61 2 9662 4033.

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