

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Sonozyme 2

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

Use of substance / mixture: Enzymatic detergent
For further information on product indication, please see the label

1.3. Details of the supplier of the safety data sheet

Company name: Ultrawave Limited
Eastgate business Park
Wentloog Avenue
Cardiff
CF3 2EY
UK

Telephone: 0845 330 4236

Email: admin@ultrawave.co.uk

1.4. Emergency telephone number

Emergency Telephone: 0845 330 4236

Section 2: Hazards identification

2.1. Classification of the substance or mixture

In compliance with EC regulation No.127/2008 and its amendments: Eye Irrit. 2: H319

Most important adverse effects: May produce an allergic reaction (EUH208).

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

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

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

May produce an allergic reaction

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

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

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

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

Signal words: Warning

Hazard pictograms: GHS07



Additional Labelling: EUH208 Contains SUBTILISIN. May produce an allergic reaction.
EUH208 REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO.247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO.220-239-6] (3:1). May produce an allergic reaction

Hazard statements: H390 Causes serious eye irritation.

Precautionary Statements – General: P102 Keep out of reach of children.

Precautionary Statements – Prevention: 280 Wear protective gloves.

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

Precautionary Statements – Disposal: P501 Dispose of unused product and its container as hazardous waste.

2.3 Other Hazards

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

No other hazards identified in the current state of knowledge.

Section 3: Composition/information on ingredients

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

3.2. Mixtures

Composition:

ORTHOPHOSPHORIC ACID

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS:126-92-1 EC:204-812-8 SODIUM 2-ETHYLHEXYL SULFATE	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318	Xi Xi;R38-R41		0<=x%<2.5
CAS:9014-01-1 EC: 232-752-2 REACH: 01- 2119480434-38 SUBTILISIN	GHS07, GHS05, GHS09, GHS08 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1	Xn, N Xn;R42-R22 Xi;R37/38-R41 N;R50	[1]	0<=x%<2.5
CAS: 55965-84-9 5-CHLORO-2-METHYL-4- ISOTHIAZOLIN-3-ONE [EC NO.247-500-7] AND 2-METHYL-2H- ISOTHIAZOL-3-ONE [EC NO.220-239-6] (3:1)	GHS06, GHS05, GHS09, GHS08 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1	T,N T;R23/24/25 C;R34 Xi;R43 N;R50/53		0<=x%<2.5

Information on ingredients:

[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.

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.

In the event of swallowing: Rinse out the mouth, do not induce vomiting, keep the person calm and take him/her to a clinic or a doctor. Show the container or label.

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 recommendations of the doctor.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable methods of extinction: Any extinguishing agents are authorised: 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 breath smoke

5.3. Advice for fire-fighters

Advice for fire-fighters: 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.
Take care not to skid.
Avoid all contact with skin or eyes.

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, vermiculite, diatomaceous earth in drums for waste disposal.
Do not get rid in natural spaces (waterways, ground and vegetation...)

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.

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 eye contact with this mixture.
Water source nearby.
Ensure room is well ventilated.

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

Keep container tightly closed.
Store ONLY in the original packaging.
Store between +5°C and +35°C in a dry, well ventilated place.
Do not use after expiry date mentioned on the packaging.
Keep out of the reach of children.

7.3. Specific end use(s)

Specific end use(s): Refer to paragraph 1 for product indication.
For professional use only

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 substance. Paragraph 3 details the chemical name corresponding to the CAS number.

8.1. Control parameters

Occupational exposure limits:

-Belgium (Order of 19/05/2009, 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
9014-01-1	-	-	5 Ág/m ³	-	-

-Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
9014-01-1	-	0.06 Ág/m ³	-	-	-

-Switzerland (SUVA 2009):

CAS	VME-mg/m ³	VME-ppm	VLE-mg/m ³	VLE-ppm	Temps	RSB
9014-01-1	-	-	0.00006	-	15 min	S

-UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA	STEL	Ceiling	Definition	Criteria
9014-01-1	0.04 Ág/m ³	-	-	-	-

8.2. Exposure controls

Suitable technical inspection:	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-use. Ensure that there is adequate ventilation, especially in confined areas.
Eye / face protection:	Avoid contact with eyes. Water source nearby.
Hand protection:	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of the use at the work station. Protective gloves need to be selected according to their suitability for the work station in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. 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.
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.
Respiratory protection:	In case of insufficient ventilation, with the risk of exceeding the TLV's (Threshold Limit Values)/TWA, wear suitable breathing apparatus. Particularly breathing apparatus, P3 type.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Fluid Liquid

Odour: Weak

Colour: To be translated (XML)

Important health, safety and environmental information

pH: 8.50
Slightly basic

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

No data available.

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.
Refer to the scientific folder*: product/material compatibility table
*available on request

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

Substances: Not specified

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

Acute toxicity: Acute toxicity estimate (ATE)*:
Oral ATE: >2000mg/kg

*according to the method of calculation described in the CLP regulation (Classification, Labelling, Packaging) Part 3 Chapter 3.1 based on the data of the different components present in the product.
Ingestion may lead to irritation of the digestive system, abdominal pain, headaches and nausea.

Skin corrosion/skin irritation: Possibility of itching with light to moderate local redness.

Serious damage to eyes/eye irritation: Ocular irritation: notably redness of the conjunctiva and lacrimation.

Respiratory or skin sensitisation: Contains at least on sensitising substance. May cause an allergic reaction.

Section 12: Ecological information

12.1. Toxicity

Substances: Not specified

Mixtures: **The mixture has not been classified as an environmental hazard, in compliance with EC regulations 1271/2008.**

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.

The packages must not be reused.

Do not pour into waterways.

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 and animals.

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

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Soiled Packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

Codes of waste (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 waste code is given for indicative purposes.
The waste code must be determined by the user, according to the application of the product.
18+Waste from human or animal healthcare and/or related research (except kitchen and restaurant wastes not arising from immediate healthcare)

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

Labelling for detergents (EC Regulation No. 648/2004, 907/2006): Less than 5%: anionic surfactants
5% or over but less than 15%: non-ionic surfactants
Enzymes
Preservation agent(s): Methylchloroisothiazolinone, Methylisothiazolinone

15.2. Chemical Safety Assessment

Information from the chemical safety assessment of substances present in the product is included in the appropriate sections of this safety data sheet, whenever necessary.

Section 16: Other information

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 the 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.

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 other product. The product must not be used for applications other than those specified in heading 1 without first obtaining written handling instructions.

-Implementation of classification and labelling in compliance with EC regulation 1272/2008.

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

- H301** Toxic if swallowed.
- H302** Harmful if swallowed.
- H311** Toxic in contact with skin.
- H314** Causes severe skin burns and eye damage.
- H315** Causes skin irritation.
- H317** May cause allergic skin reaction.
- H318** Causes serious eye damage.
- H331** Toxic if inhaled.
- H334** May cause allergic or asthma symptoms or breathing difficulties if inhaled.
- 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.
- R23/24/25** Toxic by inhalation, in contact with skin and if swallowed.
- R 34** Causes burns.
- R 37/38** Irritating to respiratory system and skin.
- R 38** Irritating to skin.
- R 41** Risk of serious damage to eyes.
- R 42** May cause sensitisation by inhalation.
- R 43** May cause sensitisation by skin contact.
- R 50** Very toxic to aquatic organisms.
- 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.
- GHS07:** Exclamation mark.