

BIO TEAK ENZIMATIC
Code: 57/225



Version: 2 Date of compilation: 27/10/2011

Date of printing: 25/04/2013

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

1.1	<u>PRODUCT IDENTIFIER:</u> BIO TEAK ENZIMATIC Code: 57/225
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input checked="" type="checkbox"/> Consumers Teak cleaner. <u>Uses advised against:</u> This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'.
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> NAUTIEL SERVICE, S.L. Pg. Joan de Borbó, 92 - 08003 Barcelona Phone: +34 93 2210869 <u>E-mail address of the person responsible for the safety data sheet:</u> nautiel-service@nautiel.com
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> <u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> Xn:R22 Xi:R41
2.2	<u>LABEL ELEMENTS:</u> <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> </div> <p style="text-align: right;">Xn</p> <p style="text-align: right;">This product is labelled as HARMFUL in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC</p> <p><u>R-phrases:</u> R22 Harmful if swallowed. R41 Risk of serious damage to eyes.</p> <p><u>S-phrases:</u> S2 Keep out of reach of children. S3/7 Keep container tightly closed in a cool place. S13 Keep away from food, drink and animal feedingstuffs. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S25 Avoid contact with eyes. S29 Do not empty into drains. S46 If swallowed, seek medical advice immediately and show this container or label.</p> <p><u>Supplementary statements:</u> P153 Contains oxygen-based bleaching agents > 30 %, phosphates 15 - 30 %. Do not swallow.</p> <p><u>Dangerous ingredients:</u> None in a percentage equal to or higher than the limit for the name.</p>
2.3	<u>OTHER HAZARDS:</u> Whithin some powder-air limits of concentration, forms a mixture potentially explosive.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	<u>SUBSTANCES:</u> Not applicable.
3.2	<u>MIXTURES:</u> This product is a mixture. <u>Chemical description:</u> Preparation based on organic peroxides. <u>Dangerous ingredients:</u> Substances taking part in a percentage higher than the exemption limit: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>40 < 50 % <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/></p> <p>Sodium percarbonate CAS: 15630-89-4 , EC: 239-707-6 DSD: O:R8 Xn:R22 Xi:R41 CLP: Ox. Sol. 2:H272 Acute Tox. (oral) 4:H302 Eye Dam. 1:H318</p> <p>25 < 30 % <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>Disodium metasilicate pentahydrate CAS: 10213-79-3 , List No. 600-279-4 DSD: C:R34 Xi:R37 CLP: Skin Corr. 1B:H314 STOT SE (irrit.) 3:H335</p> </div> <div style="width: 45%; text-align: right;"> <p>Autoclassified</p> <p>Index No. 014-010-00-8 < ATP19 < CLP00</p> </div> </div>



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Index No. 011-005-00-2
< ATP12
< CLP00

Autoclassified

10 < 15 % **Sodium carbonate**
CAS: 497-19-8 , EC: 207-838-8
DSD: Xi:R36
CLP: Eye Irrit. 2:H319

5 < 10 % **N,N'-ethylenbis(N-acetylacetamide)**
CAS: 10543-57-4 , EC: 234-123-8
DSD: Xi:R36/38
CLP: Not available.

For more information, see sections 8, 11, 12 and 16.

[Substances SVHC subject to authorisation, included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)


None

[Substances SVHC candidate to be included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)

None

SECTION 4 : FIRST AID MEASURES

4.1 [DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:](#)

4.2  When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Inhalation produces burning sensation, coughing, breathlessness and sore throat.	In case of dust inhalation, remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin:	Skin contact causes redness, burns and pain.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Apply lanolin ointment. In the event of cutaneous eruptions contact a doctor.
Eyes:	Contact with the eyes produces redness, pain, serious burns and loss of vision.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. If possible, alternate the rinsing with a 5% solution of sodium ascorbate in water or a 2% solution of sodium bicarbonate in water. Both solutions should not be more than 4 weeks old. Do not apply oils. Call a physician immediately.
Ingestion:	If swallowed, causes severe burns on the lips, mouth, throat and esophagus, with gastric disorders and abdominal pain.	If swallowed, seek medical advice immediately and show container or label. If there has been any contact with the mouth, rinse out with large quantities of water only. Do not induce vomiting. Keep the patient at rest.


4.3 [INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:](#)
Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).

SECTION 5 : FIRE-FIGHTING MEASURES

- 5.1 [EXTINGUISHING MEDIA:](#)
Extinguishing powder or atmosphere of CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: halon.
- 5.2 [SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:](#)
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides. Exposure to combustion or decomposition products may be a hazard to health.
- 5.3 [ADVICE FOR FIREFIGHTERS:](#)
- [Special protective equipment:](#) Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.
- [Other recommendations:](#) Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

- 6.1 [PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:](#)
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing dust.
- 6.2 [ENVIRONMENTAL PRECAUTIONS:](#)
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

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<p>6.3 <u>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</u> Sweep spill product. Do not use rags. The peroxide impregnated absorbent must be placed in a safe place and not put into a container.</p>	
<p>6.4 <u>REFERENCE TO OTHER SECTIONS:</u> For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.</p>	
<p>SECTION 7 : HANDLING AND STORAGE</p>	
<p>7.1 <u>PRECAUTIONS FOR SAFE HANDLING:</u> Comply with the existing legislation on health and safety at work. <u>General recommendations:</u> Handle with care, avoiding any discharge. Avoid any type of leakage or escape. Keep the container tightly closed. Do not weight it in the storage area. Avoid friction, rough handling or strong impacts. <u>Recommendations for the prevention of fire and explosion risks:</u> Powder can be explosive if mixed with air in critical proportions and in presence of an ignition source. Avoid the contact with hot surfaces or flames, sparks and electrical or electrostatic discharges. Do not smoke. - Flash point : 156. °C - Autoignition temperature : 425. °C <u>Recommendations for the prevention of toxicological risks:</u> Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8. <u>Recommendations for the prevention of environmental contamination:</u> It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.</p>	
<p>7.2 <u>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</u> Prevent unauthorized access. Keep away from food, drink and animal foodstuffs. Keep out of reach of children. Keep in a cool place. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. Keep container tightly closed. For more information, see section 10. <u>Class of store</u> : According to current legislation. <u>Maximum storage period</u> : 24. months <u>Temperature interval</u> : min: 4. °C, max: 40. °C <u>Incompatible materials:</u> Keep away from reducing agents, oxidizing agents, acids, alkalis, metals, heavy-metal compounds, combustible materials. <u>Type of packaging:</u> According to current legislation. <u>Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:</u> Not applicable.</p>	
<p>7.3 <u>SPECIFIC END USES:</u> For the use of this product do not exist particular recommendations apart from that already indicated.</p>	

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	<p><u>CONTROL PARAMETERS:</u> Occupational Exposure Limit Values (TLV) AGCIH 2009</p>	<u>TLV-TWA</u>		<u>TLV-STEL</u>		<u>Year</u>
		ppm	mg/m3	ppm	mg/m3	
	Sodium carbonate		10.			1986
	TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.					
	<u>Biological Limit Values:</u> Not available					
	<u>Derived no-effect level (DNEL) for general population:</u> Not available					
	<u>Predicted no-effect concentration (PNEC):</u> Not available					

8.2 EXPOSURE CONTROLS:

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:
Provide adequate cleaning. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particles below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system:
Avoid the inhalation of dust.

- Mask:
Suitable respiratory protection at low concentrations or short-term incidence: P2-type filter mask (white), with medium retention ability, for irritant or harmful solid particles or aerosols (EN143). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers.
- Protection of eyes and face:
Install emergency eye baths close to the working area.
- Goggles:
Safety goggles for chemicals, with suitable lateral protection (EN166).
- Face shield: No.
- Protection of hands and skin:
Install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.
- Gloves:
Neoprene rubber gloves (EN374). The gloves should be immediately replaced when any sign of degradation is noted.
- Boots: No.
- Apron: No.
- Clothing:
Clothing resistant to corrosive products will have to be worn. Put away work clothes under control and separately from the rest. Do not take contaminated clothing home. Wash contaminated work clothes before wearing them again.

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment.
Spills on the soil: Prevent contamination of soil.
Spills in water: Do not allow to escape into drains, sewers or water courses.
Emissions to the atmosphere: Avoid the formation of dust.



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state : Powdered solid.
- Colour : White.
- Odour : Characteristic

pH-value

- pH : 11.5 ± 1. 50 g/l at 20°C

Change of state

- Melting point : Not available
- Initial boiling point : Not applicable

Density

- Relative density : 1.75 ± 0.02 at 20/4°C Relative water

Stability

- Decomposition temperature : 55. °C

Viscosity:

- Viscosity (flow time) : Not applicable

Volatility:

- Vapour pressure : Not applicable

Solubility(ies)

- Solubility in water: : Soluble

Flammability:

- Flash point : 156. °C
- Autoignition temperature : 425. °C

Explosive properties:

Oxidizing properties:

9.2 OTHER INFORMATION:

- Available peroxydic oxygen : 6.96 % OO

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:

Not available.

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, metals, heavy-metal compounds, combustible materials. Special care must be taken under all circumstances that there is no direct contact with accelerators, given that a violent decomposition could take place or even an explosion.

10.4 CONDITIONS TO AVOID:

- **Heat:** Keep away from heat sources as this could give rise to the material thickening. This preparation is quite stable at normal temperatures (around 20°C). However, at higher temperatures an exo-thermic decomposing reaction takes place. In the event of the decomposition taking place so fast that the heat only partially dissipates, an increased acceleration of the product's temperature occurs, finally giving rise to an auto-accelerated breaking down of the organic peroxide. Depending on the circumstances, eg. the amount, the degree of containment, etc., intense decomposition, auto-ignition or even an explosion may take place.
- **Light:** Avoid direct contact with sunlight as this could cause a rise in temperature, with the subsequent danger of the peroxide decomposing.
- **Air:** Not applicable.
- **Humidity:** Avoid extreme humidity conditions.
- **Pressure:** Not applicable.
- **Shock:** Not applicable.

10.5 INCOMPATIBLE MATERIALS:

Keep away from reducing agents, oxidizing agents, acids, alkalis, metals, heavy-metal compounds, combustible materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced: oxygen, nitrogen oxides, phosphorus oxides. The vapours given off on decomposing are inflammable, therefore any source of ignition could cause a fire.

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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:
 · Some organic peroxides will cause serious, irreversible ocular injuries to the cornea, even after brief contact.
 · Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed. The mists of fine particles are skin and respiratory tract irritants.
 · Contains sensitising substances. May produce an allergic reaction.
Routes of exposure:
Short-term exposure: Harmful if swallowed. Risk of serious damage to eyes.
Long-term or repeated exposure:

<u>DOSE AND LETHAL CONCENTRATIONS</u> for individual ingredients :	<u>DL50</u> (OECD 401) mg/kg oral	<u>DL50</u> (OECD 402) mg/kg cutaneous	<u>CL50</u> (OECD 403) mg/m3.4hours inhalation
Sodium percarbonate	1034. Rat	> 2000. Rabbit	
Disodium metasilicate pentahydrate	1500. Rat		
Sodium carbonate	4090. Rat	> 2000. Rabbit	
N,N'-ethylenebis(N-acetylacetamide)	9000. Rat		

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

12.1 <u>TOXICITY:</u> for individual ingredients :	<u>CL50</u> (OECD 203) mg/l.96hours	<u>CE50</u> (OECD 202) mg/l.48hours	<u>CE50</u> (OECD 201) mg/l.72hours
Sodium percarbonate	71. Fishes	4.9 Daphnia	7.7 Algae
Disodium metasilicate pentahydrate	2320. Fishes	247. Daphnia	
Sodium carbonate	320. Fishes	265. Daphnia	
N,N'-ethylenebis(N-acetylacetamide)	500. Fishes	800. Daphnia	

12.2 PERSISTENCE AND DEGRADABILITY:
Not available.

12.3 BIOACCUMULATIVE POTENTIAL:
Not available.

12.4 MOBILITY IN SOIL:
Not available.

12.5 RESULTS OF PBT AND MPMB ASSESMENT:
Not available.

12.6 OTHER ADVERSE EFFECTS:
Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:
 Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.
Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:
 Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. Never re-use a container which has contained peroxides.
Procedures for neutralising or destroying the product:
 Controlled incineration in special facilities for chemical waste, but in accordance with local regulations. Before burning dilute with organic solvents.

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SECTION 14 : TRANSPORT INFORMATION

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Not applicable
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u> <u>Transport by road (ADR 2011):</u> <u>Transport by rail (RID 2011):</u> Free <u>Transport by sea (IMDG 34-08):</u> Free <u>Transport by air (ICAO/IATA 2010):</u> Free <u>Transport by inland waterways (ADN):</u> Free.
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not applicable.
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Not applicable.
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> <u>Tactile warning of danger:</u> If the product is intended for the general public, is mandatory a tactile warning of danger. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.' <u>Child safety protection:</u> If the product is intended for the general public, is required a child-resistant fastening. Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products.' <u>RESTRICTIONS:</u> <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not applicable. <u>Recommended restrictions on use:</u> Not applicable. <u>OTHER REGULATIONS:</u> Not available
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> Not available.

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**SECTION 16 : OTHER INFORMATION**

- 16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:
R8 Contact with combustible material may cause fire. R22 Harmful if swallowed. R34 Causes burns. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R36/38 Irritating to eyes and skin.
Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:
H272 May intensify fire: oxidiser. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
- MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
· European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/esis/>
· Threshold Limit Values, (AGCIH, 2009).
- MATERIAL SAFETY DATA SHEET REGULATIONS:
Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.
- HISTORY: Revision:
Version: 2 27/10/2011

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.