



SAFETY DATA SHEET

BIO-ORGANIC CATALYST, INC.

Safety Data Sheet according to Reg.(EU) No 2015/830

Product Name: PC₃™ Organic Bio-Catalytic Water Treatment (Powder)

Issue Date: 04/21/2026

Revision Date: 07/13/2026

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1 Product Identifier

Product Name: PC₃™ Organic Bio-Catalytic Water Treatment (Powder)

Chemical Name of the Substance: Highly purified proteins from plant and mineral sources, natural foaming agent, wetting agent.

1.2 Relevant Identified Uses of the Substance or Mixture

Bio-Catalytic Water and Soil Conditioner

1.3 Details of the Supplier of the Safety Data Sheet

Bio-Organic Catalyst, Inc., A wholly owned subsidiary of Neozyme International, Inc.

711 W. 17th Street, Suite E-6

Costa Mesa, CA 92627 USA

Customer Information Number:

Telephone: 011 (949) 515-1301

Fax: 011(949) 515-1314

Info@bio-organic.com

1.4 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 011 (917) 513-8012

SECTION 2. HAZARDS IDENTIFICATION

2.1 Product definition: Spray Dried Quillaja Saponaria Biomass Extract.

2.2 Classification of the substance or mixture:

According to Directive criteria, Regulation (EU) No 1272/2008 (CLP/GHS):

STOT SE 3

Eye irritation 2



Warning.

Hazard Statements: H320 Causes eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin reaction.

H320 Causes eye irritation, Category 2B.

H335 Specific target organ toxicity after single exposure, Category 3, Respiratory irritation

Precautionary Statements

P261 Avoid breathing dust.

P264 Wash thoroughly after handling it.

P271 Use only outdoors or in a well-ventilated area.

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

P285 In case of inadequate ventilation wear respiratory protection.

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P304+P340+P312 IF INHALED, remove victim to fresh air and keep at rest in a comfortable position for breathing. and seek medical attention if unwell.

P304+P330 IF SWALLOWED. Rinse mouth.

P302+P353+P362 IF ON SKIN. Rinse skin with water/shower, take off contaminated clothing and wash before reuse.

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.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions: None

For the full text of the H phrases mentioned in this Section, see Section 16.

Adverse physicochemical, human health and environmental effects:

No other hazards

Other hazards: In contact with moisture, slippery on smooth surfaces.

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex VIII: not listed in ESIS PBT

List Substance meets the criteria for vPvB according to Regulation (EC) No.1907/2006, Annex VII: not listed in ESIS PBT list.

Other hazard : None

2.3 Label Elements

In compliance with Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Composition: <30-45 % surfactant

Hazard pictograms:



Signal word: Warning

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable

3.2 Mixture; Powder

Product Name	Product Identifier	CAS #	EINECS NUMBER:	%	CLP Classification Regulation (EC) No.1272/2008
QEP-20-PQUP0008	Quillaja Extract Spray Dried Blend (Triterpenic saponins)	68990-67-0	273-620-4	89.8	H320 Eye Irrit 2 H335 STOT SE 3
Yeast Extract (ORG)	Yeast Extract	8013-01-2	232-387-9	5.5	Not classified
Citric Acid Anhydrous	Citric Acid	77-92-9	201-069-1	2.0	H320Eye Irrit. 2
Lactic Acid / (L+) Lactic Acid	Lactic Acid	50-21-5 /79-33-4	200-018-0 / 201-196-2	1.6	Lactic acid / (L+) Lactic Acid

If present in this product, any not classified components disclosed above for which no country specific OEL value(s) is (are) indicated under Section 8, are being disclosed as voluntarily disclosed components.

For the full text of the H Statements and R Phrases mentioned in this Section, see Section 16.

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SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General advice: First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Rinse skin with water/shower, take off contaminated clothing and wash before reuse.

Eye contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most Important Symptoms and Effects, both Acute and Delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed. Notes to

Physician: Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

Unsuitable extinguishing media: None

5.2 Special Hazards Arising from the Substance or Mixture Hazardous combustion products:

This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Unusual fire and explosion hazards: Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

5.3 Advice for Firefighters

Firefighting procedures: Keep people away. Isolate fire and deny unnecessary entry. Non flammable, water soluble, upon contact with water pressure generates foam. Do not inhale gases created by fire.

Special protective equipment for firefighters: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing (including firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not used, fight fire from a protected location or safe distance.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear rubber gloves, mask and protective lens during spill containment.
Isolate area, Keep unnecessary and unprotected personnel from entering the area.
For additional information, refer to Section 8, Exposure Controls and Personal Protection.
All clothes used during spill containment should be washed to prevent eye or skin contact.

6.2 Environmental Precautions

"IN ACCORDANCE WITH NATIONAL AND LOCAL LAWS AND PRACTICES." Flush down sewage or drainage systems with copious amounts of water. See Section 12, Ecological Information.

6.3 Reference to Other Sections: References to other sections, if applicable, have been provided in the previous sub-sections.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid contact with eyes, skin, and clothing. Use suitable protective clothing and equipment, Wear rubber gloves and eye protection during product handling. Wash hands thoroughly after handling. See Section 8, **Exposure Controls And Personal Protection**

Avoid breathing dust. Ensure adequate ventilation.

Instruction For Fire-And Explosion Protection: No special actions necessary.

7.2 Conditions for Safe Storage, including any Incompatibilities

Recommended storage temperature: 5 to 25°C. Store in a dry place and ventilated area. Keep tightly closed. Protect from heat and direct sunlight.

CONDITIONS TO AVOID: Strong caustics and strong bases may affect the quality and condition of the product. The 1-year shelf life given is for unopened containers stored under moderate temperature conditions.

Storage Stability:

Use within 12 months, shelf life given is for unopened containers stored under moderate temperature conditions.

7.3 Specific End Use

Natural foaming and surfactant agent.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Controls:

IFA database: Not listed in IFA database

Engineering controls: Use local exhaust ventilation, or other engineering controls, to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures:

Eye/face protection: Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

Skin protection/hand protection: Use chemical resistant gloves classified under Standard EN374. Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials

include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Viton.

Examples of acceptable glove barrier materials include: Polyvinyl alcohol ("PVA"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is an recommendation

Respiratory protection: Recommendation, Use Particulate mask p-100.

Thermal hazards: :None

Environmental exposure controls: See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance

Physical State	Powder
Color	Pale yellow
Odor	Bittersweet
Odor Threshold	No test data available
pH	4.6 ± 0.9 (4 % w/w solution)
Melting Point/Range	Not applicable
Freezing Point	Not applicable
Boiling Point (760 mmHg)	Not applicable
Flash Point	Not applicable
Evaporation Rate (Butyl Acetate = 1	Not applicable
Flammability (solid, gas)	Not applicable
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Vapor Pressure	No test data available
Relative Vapor Density (air = 1)	Not applicable
Relative Density (water = 1)	Not than 440
Water Solubility	100% in water
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Kinematic Viscosity	Not applicable
Explosive Properties	Product does not explode
Oxidizing Properties	No data available
Other information	
Pour Point	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No specific test data related to reactivity is available for this product or its ingredients.

10.2 Chemical Stability: Thermally stable at typical use temperatures.

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10.3 Possibility of Hazardous Reactions: Polymerization will not occur.

10.4 Conditions to Avoid: Conditions to avoid: Moisture, product is hygroscopic.

10.5 Incompatible Materials: Avoid contact with: Strong oxidizers.

10.6 Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological information on this product, or its components, appears in this section when such data is available.

11.1 Information on Toxicological Effects**Quillaja Saponaria Saponins:**

Acute toxicity: Rat, oral : LD50 oral > 5000 mg/kg body weight ,(Rattus norvegicus). EPA Class IV

Acute oral toxicity: Very Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Typical for this family of materials.

ORAL LD50: Levels of >5,000 mg/kg: No effects.

Acute dermal toxicity: LD50 dermal > 4000 mg/kg body weight ,(Rattus norvegicus, Source: third party laboratory

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Typical for this family of materials.

LD50, Rabbit, > 2,000 mg/kg as tested.

Acute toxicity eye: Moderate Irritation, EPA CLASS 2, ,(Rattus norvegicus), Source: third party laboratory

Serious eye damage/irritation: Irritation study (Ocular Irritation Test) performed by an independent laboratory classified the product as a borderline minimal/mild ocular irritant.

Acute toxicity skin corrosion/irritation: Sensibilization study performed by third laboratory showed no skin sensitization potential (contact allergies).

Acute inhalation toxicity: No adverse effects are anticipated from single exposure to vapor. For respiratory irritation and narcotic effects: No relevant data found.

Sensitization:

For skin sensitization: Source: third party laborator ,Sensibilization study performed by third laboratory showed no skin sensitization potential (contact allergies).

For respiratory sensitization: If you breathe the liquid, cause difficulty breathing through the nasal duct inflammation.

Specific target organ systemic toxicity (single exposure): STOT SE.

Specific target organ systemic toxicity (repeated exposure): Harmful

Aspiration hazard: Based on physical properties, not likely to be an aspiration hazard. If you breathe the powder, it could cause difficulty breathing through the nasal duct inflammation.

Carcinogenicity: Not carcinogen. Long-term study in rats (DRAKE, J. et al., 1982). Long-term study in mice (PHILLIPS, JC et al., 1978)

Teratogenicity: No relevant data found.

Reproductive toxicity: Not listed in PAN Reproductive and Developmental Toxicity Database.

Mutagenicity: No relevant data found.

COMPONENTS INFLUENCING TOXICOLOGY: None

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product, or its components, appears in this section when such data is available. This is a totally safe and efficient biocatalytic degrader of organic waste materials. The product causes contaminants and other organic matter to eventually biodegrade, thus returning to carbon dioxide and water. When disposed of in sewage and drainage systems, the product aids in the breakdown of pollutants such organic contaminants.

12.1 Toxicity

Ecotoxicity: The material is non-toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

Fish acute & prolonged toxicity: For this family of materials: LC50, fathead minnow (*Pimephales promelas*), static, 96 hrs. 100% survival rate at 1ppm.

Aquatic invertebrate acute toxicity: EC50, water flea *Daphnia magna*, 48 hrs. Toxicity: Not Detected.

Toxicity to micro-organisms: EC50 *Vibrio fischeri* (*Photobacterium phosphoreum*), *P.seudokirchnerjella* subcapitata (*Selen astrum capricornutum*) Toxicity: Not Detected.

Mutagenicity test: The organisms *P. subcapitata* and *D. magna* are continental water organisms. *V. fischeri* is an organism that can be involved for both continental water and marine water samples. *Salmonella typhimurium* is an organism to evaluate sweet water and its results can be applied to the environment and extrapolated to humans.

Salmonella typhimurium: Mutagenicity Not Detected

Marine acute toxicity: The marine invertebrate species, *Mysidopsis bahia* (*Americamysis bahia*) and the marine vertebrate species, *Menidia beryllina* were used in the tests. For the marine invertebrate species, 48-Hour Acute *Mysidopsis bahia* survival test results: LC-50 -316.23 (ppm), The 96-Hour LC-50 (concentration at which 50% mortality is expected to occur) *Menidia beryllina* survival data was 203.04 (ppm).

12.2 Persistence and Degradability

Aerobic Biodegradability: OECD biodegradation tests: For this family of materials: OECD Guideline for Testing of Chemicals, OECD 311, Inherent Biodegradability:

Value: 100%

Concentration of 2 mg/L

Duration: 28 days

Source: third party laboratory

Evaluation: completely biologically biodegradable

Anaerobic Biodegradability:

Value: 70-80%

Duration: 60 days

Method: OECD311

Source: third party laboratory

Evaluation readily biodegradable

Environmental fate: Persistence and Degradability: The material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

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12.3 Bioaccumulative Potential: Phyto-C₃ Organic is expected to desorb rapidly from soil and not bioaccumulate.

12.4 Mobility in Soil: Phyto-C₃ Organic is expected to desorb fairly rapidly from soil.

12.5 Results of PBT and vPvB assessment: This substance has not been a Substance not listed in ESIS PBT List.

12.6 Other Adverse Effects

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Flush down sewage or drainage systems with copious amounts of water. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing waste.

The definitive assignment of this material to the appropriate EWC group, and thus its proper EWC code, will depend on the use that is made of this material. Contact the authorized waste disposal services.

SECTION 14. TRANSPORT INFORMATION

Classification for ROAD and Rail Transport (ADR/RID):

- | | |
|--|---|
| 14.1 UN number | Not applicable |
| 14.2 Proper shipping name | Not applicable |
| 14.3 Class | Not applicable |
| 14.4 Packing group | Not applicable |
| 14.5 Environmental hazards | Not considered environmentally hazardous based on available data. |
| 14.6 Special precautions for user | No data available. |

Classification for SEA Transport (IMO-IMDG):

- | | |
|--|---|
| 14.1 UN number | Not applicable |
| 14.2 Proper shipping name | Not applicable |
| 14.3 Class | Not applicable |
| 14.4 Packing group | Not applicable |
| 14.5 Environmental hazards | Not considered as marine pollutant based on available data. |
| 14.6 Special precautions for user | No data available. |
| 14.7 Transport in bulk according | |

**to Annex I or II of MARPOL
73/78 and the IBC or IGC
Code**

Consult IMO regulations before transporting ocean bulk.

Classification for AIR Transport (IATA/ICAO):

14.1 UN number	Not applicable
14.2 Proper shipping name	Not applicable
14.3 Class	Not applicable
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	No data available.

This information is not intended to convey all specific regulatory or operational requirements /information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

USA (FDA): 21 CFR 172.510. FEMA GRAS NUMBER 2973

EU: E999, Regulation EU 2025/2084

Chile: Food Sanitary Regulation, Decree No. 977/96, Decree No57/2019, CLP, Chile.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

15.2 Chemical Safety Assessment

Not applicable

15.3 Hazardous Products Act Information: CPR Compliance

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

15.4 Hazardous Products Act Information: WHMIS Classification Hazards

H316 Causes mild skin irritation

H320 Eye irritation

15.5 Australian Inventory of Chemical Substances (AICS)

The principal components and additives of this product are included in the Australian Inventory of Chemical Substances (AICS) or comply with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989.

15.6 Japan. Chemical Substance Control Law (CSCL/ENCS/METI) Inventory

This product complies with, or is listed on, Japan Existing and New Chemical Substance (ENCS) (METI) Inventory.

15.7 Japan. Industrial Safety and Health Law (ISHL) Inventory

This product complies with, or is listed on, ISHL Inventory (MHLW).

SECTION 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed
H315 Causes skin irritation.
H316 Causes mild skin irritation
H318 Causes serious eye damage.
H319 Serious eye damage/eye irritation, Category 2,
H320 Eye irritation
H332 Harmful if inhaled.
H335 May cause respiratory irritation, Category 3,

Product literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Information source and references

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Bio-Organic Catalyst, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer- specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an (M) SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

This SDS will be revised and updated as requirements occur. Should further information and relevant advice be required, contact Bio-Organic Catalyst, Inc. @ Info@bio-organic.com
PC₃™ Organic Bio-Catalytic Water Treatment is manufactured under U.S./ International Patent Pending.