

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Company Identification

Registered Company Name	Organic Bioactives Ltd, New Zealand
Address	Tasman Building, Suite B, Level 1, 16-22 Anzac Ave, Auckland 1010, New Zealand
Phone	+64 (21) 224 6992
Email	compliance@organicbioactives.com
Web	www.organicbioactives.com
Emergency Telephone Number	National Poison Information centre New Zealand: Phone 0800-764766 NZ Emergency Services: 111

Product Identification

Product Name	ZeaDerMX® P New Zealand Green tea leaf Extract
Product Code	ZDMX-P
Relevant Identified uses	Cosmetic actives, Personal care use and external use only.
Common Chemical Name	Gree tea leaf extract
Chemical Family	Botanical Extract
INCI	Propanediol & Camellia Sinensis Leaf
REACH Restriction	Exempt from registration ex Annex V
HS Code	1302.19.90

Section 2: CAS Numbers and COMPOSITION

INCI	% [weight]	CAS No	EINECS
		504-63-2 /	
Propanediol	86 -92%	26264-14-2	207-997-3
Camellia Sinensis Leaf	8 - 14%	84650-60-2	283-519-7

Section 3: PHYSICAL AND CHEMICAL PROPERTIES

Product Form	Light viscous liquid
Solubility	Solubility in water >1.000 g/l
Colour	Bright green
Odour	Standard to the plant
pH @24°C	NA
Density @20°C	1.053
Viscosity @20°C	52 mPa.s @20°C
Boiling Point	214°C
Flash Point	129°C (COC)
Melting Point	-24.6°C

Section 4: HAZARD IDENTIFICATION

Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Hazardous according to the criteria of the New Zealand HSNO Act Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005.
HSNO Classification - ERMA Number: HSR006355 Haz Classes: 6.1E(oral).

Signal Word	Warning	
Hazard Statement	<p>H303 May be harmful if swallowed.</p> <p>H305 May be harmful if swallowed and enters airways.</p> <p>H333 May be harmful if inhaled.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H313 May be harmful in contact with skin.</p>	
Precautionary Statements	Prevention:	<p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P104 Read Safety Data Sheet before use.</p>
	Response:	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P331 Do NOT induce vomiting.</p> <p>P304 + P312 If inhaled: Call a POISON CENTRE/or Doctor if you feel unwell.</p> <p>P301 + P310 If swallowed: Immediately call a POISON CENTRE/or Doctor if you feel unwell.</p>

Section 5: COMPOSITION/ INFORMATION OF INGREDIENTS

Brief description of a product	Camellia Sinensis Leaf; Propanediol based
Hazardous components	<p>Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.</p> <p>Classified as Hazardous according to the criteria of the New Zealand HSNO Act Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. HSNO Classification - ERMA Number: HSR006355 Haz Classes: 6.1E(oral).</p>
Prevention	Wash hands thoroughly after handling. Wear gloves and eye/face protection.
Response	If irritation occurs: seek medical attention.

Section 6: FIRST AID MEASURES

Eye contact	<p>Wash out immediately with fresh running water, for at least 15 minutes.</p> <p>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention.</p> <p>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</p>
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Skin contact	No hazards which require special first aid measure. Remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Ingestion	Do NOT induce vomiting. Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poison Centre (0800 764766) or a doctor.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
First Aid Measure	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 from anywhere in New Zealand, (13 1126 from Australia) and is available at all times. Have the SDS with you when you call.

Section 7: FIRE FIGHTING MEASURES

Fire-fighting Measures	Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire. Wear self contained breathing apparatus for fire fighting if necessary.
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Use water, foam, dry chemical, carbon dioxide (CO ₂).
Specific Hazard	Exposure to decomposition products may be a hazard to health.
Decomposition Temp	>129°C
Personal Protective Equipment	Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise skin exposure. Avoid inhalation of vapours. Keep containers cool with water spray. Do not use direct water jet on burning material. Do not allow spillage of fire to enter drains or watercourses.

Section 8: ACCIDENTAL RELEASE MEASURES

Emergency procedures	Shut off all possible sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation. Evacuate all unnecessary personnel. If possible contain the spill. If contamination of sewers or waterways has occurred advise local emergency services.
Minor Spills	Slippery when spilt. Remove all ignition sources. Contain and clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable labelled container for waste disposal.

Major Spills	<p>Slippery when spilt.</p> <p>Wear breathing apparatus plus protective gloves.</p> <p>Prevent spillage from entering drains or water courses.</p> <p>No smoking, naked lights or ignition sources.</p> <p>Increase ventilation.</p> <p>Stop leak if safe to do so.</p> <p>Contain spill with sand, earth or vermiculite.</p> <p>Collect recoverable product into labelled containers for recycling.</p> <p>Absorb remaining product with sand, earth or vermiculite.</p> <p>Collect solid residues and seal in labelled drums for disposal.</p> <p>If large quantities of this material enter the waterways, contact the EPA or your local Waste Management Group.</p> <p>Personal Protective Equipment advice is contained in Section 10 of the SDS</p>
Environmental precautions	Do not discharge directly into drains or the soil. Keep away from surface and ground water.

Section 9: HANDLING AND STORAGE

Handling	Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Use good occupational work practice. Observe manufacturer's storing and handling recommendations. Do not allow clothing wet with material to stay in contact with skin.
Suitable Container	Original packaging. Check all containers are clearly labelled and free from leaks.
Storage Incompatibility	Keep away from heat, sparks and flames.
Storage Requirements	<p>Keep containers securely sealed. No smoking, naked lights or ignition sources.</p> <p>Store in a cool, dry, well-ventilated area.</p> <p>Store away from incompatible materials.</p> <p>Store bulk quantities under nitrogen blanket. Keep away from heat, sparks and flames.</p> <p>Protect containers against physical damage and check regularly for leaks.</p> <p>Observe manufacturer's storing and handling recommendations.</p>
Precautions for safe handling	Use PPE all the time and always follow GMP when handling and decanting.

Section 10: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls	<p>The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment:</p> <p>Respiratory equipment: AS/NZS 1715,</p> <p>Protective Gloves: AS 2161,</p> <p>Industrial Clothing: AS2919,</p> <p>Industrial Eye Protection: AS1336 and AS/NZS 1337,</p> <p>Occupational Protective Footwear: AS/NZS2210.</p>
Engineering Controls	Natural ventilation should be sufficient, however where vapours of mists are generated the use of a grounded mechanical exhaust ventilation system is recommended.

Personal Protection Equipment (PPE)	Respiratory protection: A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
	Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Refer to AS/NZS 2161.1:2000 Occupational Protective Gloves – Selection, use and maintenance.
	Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 11: STABILITY AND REACTIVITY

Chemical stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to avoid	Avoid Temperature >129°C. Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials	Avoid reaction with strong oxidising agents and strong acidics.
Environmental exposure controls	Emissions from ventilation and process equipment should be checked to ensure compliance with environmental protection legislation.
Hazardous decomposition products	No decomposition if stored normally.
Hazardous Polymerization	Will not occur.

Section 12: TOXICOLOGICAL INFORMATION

Acute Toxicity	ORAL: LD50, rat: 15800 mg/kg, Method: OECD Test Guideline 401, Central nervous system effects. DERMAL: No data available. INHALATION: LC50/4 h/Rat(dust/mist): > 5.0 mg/l, Mist. Respiratory Sensitization: No data available. Skin Sensitization: Maximisation Test, Species: Guinea pig, Result: Does not cause skin sensitisation. Classification: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Germ Cell Mutagenicity	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive Toxicity	No toxicity to reproduction. Teratogenicity: No toxicity to reproduction.
Carcinogenicity	No data available.

	<p>STOT-single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure.</p> <p>STOT-repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.</p> <p>Aspiration Hazard: No aspiration toxicity classification.</p> <p>Serious eye damage/irritation: Species: Rabbit, Result: No eye irritation, Classification: Not classified as irritant, Method: OECD Test Guideline 405.</p> <p>Skin corrosion/irritation Other Information: Species: Rabbit, Result: No skin irritation, Classification: Not classified as irritant, Method: OECD Test Guideline 404.</p> <p>Other Information: Repeated dose toxicity: Inhalation, rat: no toxicologically significant effects were found.</p> <p>Teratogenicity: Animal testing showed no developmental toxicity.</p>
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Section 13: ECOLOGICAL INFORMATION

Persistence and Biodegradability	Exposure time: 28 d Biodegradation: 71% Results: Biodegradable
Mobility	No data available.
Bioaccumulative Potential	Bioaccumulation is unlikely.
Other adverse effects	No data available.
Acute Toxicity	<p>FISH: LC50/96 h/Pimephales promelas (fathead minnow): > 9,720 mg/l Method: OECD Test Guideline 203</p> <p>Daphnia: EC50/48 h/Daphnia magna (Water flea): 7,417 mg/l Method: OECD Test Guideline 202</p> <p>Algae: ErC50/72 h/Desmodesmus subspicatus (green algae): > 10,000 mg/l Method: OECD Test Guideline 201</p> <p>NOEC/72 h/Desmodesmus subspicatus (green algae): 500 mg/l Method: OECD Test Guideline 201</p>

Section 14: DISPOSAL CONSIDERATIONS

Recycle wherever possible.

Consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: Burial in a licensed land-fill or Incineration in a licensed apparatus (after admixture with suitable combustible material).

Empty contaminated packaging should be taken for local recycling, recovery or waste disposal.

Do not discharge into drains, surface and ground water.

Section 15: TRANSPORT INFORMATION

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005.

Section 16: REGULATORY INFORMATION

Classified as Hazardous according to the criteria of the New Zealand HSNO Act Not a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land & Dangerous Goods Rule 2005. HSNO Classification - ERMA Number: HSR006355 Haz Classes: 6.1E(oral)

All components of this material are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).

Not classified as hazardous according to criteria of NOHSC.

HSNO Approval Number HSR006355

Propane-1,3-diol CAS Number 504-63-2

Camellia Sinensis Leaf CAS Number 84650-60-2, EINECS 283-519-7

Section 17: OTHER INFORMATION

NEW ZEALAND POISON CENTRE 0800 POISON (0800 764 766)

NZ EMERGENCY SERVICES: 111

The information contained in this Safety Data Sheet is obtained from current and reliable sources. OB Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material.

Section 18: DISCLAIMER

No liability can be accepted arising out of the use, application or processing of this product. It is the users' responsibility to determine the safe conditions for use of this product.