

SAFETY DATA SHEET

Bioprime Trace

Effective date: 18/05/2021

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

1.1 PRODUCT NAME:

Bioprime Trace.

1.2 OTHER MEANS OF IDENTIFICATION

None.

1.3 RECOMMENDED USE

The product functions to accelerate natural soil microbial activity and provide trace element supply.

1.4 MANUFACTURER

Address - Bioscience Pty Ltd, 488 Nicholson Rd Forrestdale, Western Australia, 6112

Telephone - (08) 9397 2446

Facsimile - (08) 9397 2447

1.5 EMERGENCY PHONE NUMBER

0407 381 988

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION

Classified as a Hazardous Material according to the criteria of WorkSafe Australia.

2.2 HAZARD PICTOGRAMS:



Signal Word

Danger, Harmful, Harmful to the Environment

Hazard Statements

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H360: May damage fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P201: Obtain special instructions before use.

P273: Avoid release to drains and waterways.

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

P302 + P352: IF ON SKIN: Wash with plenty of water

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

P308 + P313: If exposed or concerned: Get medical advice/attention.

P312: Call a poison centre or doctor/physician if you feel unwell.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

2.3 OTHER HAZARDS

Unknown.

SECTION 3: INFORMATION ON INGREDIENTS

3.1 INGREDIENTS

Ingredients not precisely identified are proprietary and non-hazardous. Values are not product specification.

INGREDIENT	CAS No	%
Microbial Ferment	N/A	>60%
Citric Acid	77-92-9	<10%
Ferrous sulphate	7782-63-0	<10%
Boric acid	10043-35-3	<5%
Copper sulphate	7758-98-7	<1%
Sodium Molybdate	7631-95-0	<1%
Manganese sulphate	10034-96-5	<10%
Zinc sulphate	7446-19-7	<10%

3.2 CAS NUMBER

Refer to chart above.

3.3 CONCENTRATION OF INGREDIENTS

Refer to chart above.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

After skin contact: Remove contaminated clothing. Wash skin with soap and plenty of water. Seek medical attention if irritation develops.

After eye contact: Immediately flush eyes with copious amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Seek medical attention.

After swallowing: Rinse mouth with water. Make victim drink water (two glasses at most) if conscious. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek medical attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

May cause poisoning and severe eye/skin irritation. May damage fertility or the unborn child.

4.3 MEDICAL ATTENTION AND SPECIAL TREATMENT

If exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Material is not known to be flammable and/or explosive in either liquid or vapour form.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

None.

5.3 SPECIAL PPE/PRECAUTIONS TO FIRE FIGHTERS

None

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PPE AND EMERGENCY PROCEDURES

Advice for non-emergency personnel:

Do not breathe vapours, aerosols.

Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures and consult an expert.

Advice for emergency responders: Protective equipment: See section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Do NOT let product wash into drains or waterways!

6.3 METHODS AND MATERIALS FOR CONTAINMENT/CLEAN UP

Clean spills using absorbent materials.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Remove and wash contaminated clothing immediately. Apply preventive skin protection. Wash hands and face after working with substance.

Do not swallow substance/mixture.

Keep containers closed.

Use appropriate handling equipment to lift large loads.

7.2 CONDITIONS FOR SAFE STORAGE

Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

No exposure standards allocation.

No biological limit allocated.

8.2 ENGINEERING CONTROLS

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

8.3 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/face protection

Tightly fitting safety goggles

Hand protection

Required

Other protective equipment

Protective clothing

Respiratory protection

Required when vapours/aerosols are generated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark tan opaque liquid
Odour:	Sweet, yeast like odour
Odour Threshold:	None
pH:	2.6 – 3.2
Melting/Freezing point:	- 5°C
Boiling Point/Range:	100°C
Flash Point:	No data
Evaporation Rate:	No data
Flammability:	Not flammable
Upper/Lower Flammability/explosive limits:	No data
Vapour Pressure:	No data
Vapour Density:	No data
Relative Density:	No data
Solubility:	Completely soluble
Partition Coefficient:	No data
Auto ignition Temperature:	No data
Decomposition Temperature:	No data
Viscosity:	Slightly viscous
Specific Heat Value:	No data
Specific Gravity:	1.2 - 1.4
Volatile Organic Compounds Content:	Natural esters of C ₄ -C ₁₀ alcohols and organic acids
% Volatile:	No data
Saturated Vapour Concentration:	No data
Release of invisible flammable vapour/gas:	None

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

None.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 CONDITIONS TO AVOID

Strong heating/decomposition

10.4 INCOMPATIBLE MATERIALS AND POSSIBLE HAZARDOUS REACTIONS

Exothermic reaction with bases.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON ROUTES OF EXPOSURE

Acute oral toxicity, acute inhalation toxicity, skin irritation, eye irritation.

11.2 SYMPTOMS RELATED TO EXPOSURE

May cause sickness/nausea, possible mucosal irritations, possible skin irritations, eye irritations and possible damage.

11.3 NUMERICAL MEASURES OF TOXICITY

Unknown.

11.4 IMMEDIATE, DELAYED AND CHRONIC HEALTH EFFECTS FROM EXPOSURE

May damage fertility or cause harm to unborn baby. See 11.2.

11.5 EXPOSURE LEVELS

Unknown.

11.6 INTERACTIVE EFFECTS

Pre-existing skin or respiratory tract allergies.

11.7 DATA LIMITATIONS

Unknown.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

It does not contain significant concentrations of viable bacteria, fungi or virus. Acute exposure of natural environments (soils, waterways) will result in a shift in microbial populations initially to heterotrophic organisms, followed by a succession towards oligotrophic organisms.

12.2 PERSISTENCE AND DEGRADABILITY

The product is rapidly degraded by indigenous microflora. Applied at recommended dilution rates, the product will be completely oxidised within three days.

Organic components will be completely oxidised to carbon dioxide.

12.3 BIOACCUMULATIVE POTENTIAL

Chronic long term exposure will result in maintaining a microbial population characterised by heterotrophs.

12.4 MOBILITY IN SOIL

Unknown.

12.5 OTHER ADVERSE EFFECTS

None.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 SAFE HANDLING AND DISPOSAL METHODS

The product should not be disposed of down drains or into waterways!

Disposal into alkaline environments (pH>9) should be avoided.

13.2 DISPOSAL OF CONTAMINATED PACKAGING

Consult local council for laws/regulations pertaining to the use and disposal of this product.

13.3 ENVIRONMENTAL REGULATIONS

Consult local council for laws/regulations pertaining to the use and disposal of this product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER

UN-3315

14.2 SHIPPING NAME:

Toxic chemical.

14.3 TRANSPORT HAZARD CLASS

The material is hazardous and dangerous in high doses/concentrations according to the criteria of the ADG and IATA Code.

14.4 PACKING GROUP
PGIII

14.5 ENVIRONMENTAL HAZARDS

Acute exposure of natural environments (soils/waterways) will result in trace metals accumulation.

14.6 SPECIAL PRECAUTIONS DURING TRANSPORT

None specified.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL SPECIFIC REGULATIONS

None.

15.2 SCHEDULE NUMBER

6.1b Toxic Substances



SECTION 16: OTHER INFORMATION

16.1 DATE OF PREPARATION OR REVIEW

Revision 2 - 24/09/2021

Supersedes: 18/05/2017

To be reviewed every 5 years or when updated/new information is available.

16.2 KEY ABBREVIATIONS OR ACRONYMS USED

None.

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