

SAFETY DATA SHEET

Bioprime Dicot

Effective date: 22/02/2022

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

1.1 PRODUCT NAME

Bioprime Dicot

1.2 OTHER MEANS OF IDENTIFICATION

Bioprime

1.3 RECOMMENDED USE

The product functions to modify natural microbial community structure. It is added to soils, to alter microbial profiles

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 Non-Hazardous according to the criteria of WorkSafe Australia.

2.2 HAZARD PICTOGRAMS



Signal Word
Warning

Hazard Statements

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H320: Causes eye irritation

Precautionary Statements

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

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

2.3 OTHER HAZARDS

Unknown.

SECTION 3: INFORMATION ON INGREDIENTS

3.1 INGREDIENTS

Ingredients that are not precisely identified are proprietary and non-hazardous. All Ingredients at the concentrations used are Type III ingredients. Values are not product specification.

| INGREDIENT | CAS No | % |
|-------------------|---------------|----------|
| Microbial Ferment | N/A | >80% |
| Citric Acid | 77-92-9 | <10% |
| Oxalic acid | 144-62-7 | <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 inhalation: Remove to fresh air.

After skin contact: Wash off with plenty of water. Immediately remove contaminated clothing.

After eye contact: Rinse out with plenty of water. Immediately call in ophthalmologist.

After swallowing: Make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a doctor/physician immediately. Do not attempt to neutralise.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Possible eye/skin irritant.

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.

Avoid skin and eye exposure.

Avoid swallowing.

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

6.2 ENVIRONMENTAL PRECAUTIONS

Material can be safely washed into drains and sewers. Release into the natural environment (soils, waterways) should be diluted at 10:1 with water to prevent localised concentration.

6.3 METHODS AND MATERIALS FOR CONTAINMENT

Clean spills using absorbent materials.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Wash contaminated clothing. Apply preventative skin protection (barrier cream or gloves).

Wash hands and face after working with substance.

Do not swallow substance/mixture.

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: | 1.09 – 1.11 |
| 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 if reacted to alkaline material.

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

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

Product 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 facultative 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 can be safely disposed of by flushing into sewers or into soil. The product should be diluted prior to disposal.

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

None allocated.

14.2 SHIPPING NAME:

None allocated.

14.3 TRANSPORT HAZARD CLASS

The material is non-dangerous by the criteria of the ADG Code. There are no special transport requirements.

14.4 PACKING GROUP

PGIII

14.5 ENVIRONMENTAL HAZARDS

None.

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

None.

SECTION 16: OTHER INFORMATION

16.1 DATE OF PREPARATION OR REVIEW

Revision 3 - 18/05/2019

Supersedes: 01/04/2014

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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