

## BACTIVATE Sequest

Revision: 1.0

Revision date: 20 Feb 2021

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product Identifier

Product Name Bactivate Sequest

#### 1.2 Uses and uses advised against

Uses Agricultural Applications/ fertiliser/ Soil Ameliorant

Uses advised against Any uses other than above

#### 1.3. Details of the supplier of the safety data sheet

Supplier Name Bioptiv (AUS) Pty Ltd

Address Factory 3, 100 Olympia St, Tottenham VIC 3012

Telephone 1800 112 779

Email info@bioptiv.com.au

#### 1.4. Emergency telephone number

Emergency 1800 112 779 or a doctor

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/ Hazard categories	Hazard statement
Acute toxicity oral (Category 4)	H302
Serious eye damage (Category 1)	H318

*For full text of H statements see section 16*

#### The most important adverse effects

**The most important adverse physiochemical effects:** None.

**The most important adverse human health effects:** Harmful if ingested, causes serious eye damage.

#### 2.2 Label elements

##### Hazard pictograms:



##### Signal Word:

Danger

##### Hazard Statements:

H318 Causes serious eye damage.

H302 Harmful if swallowed.

##### Precautionary Statements:

P260 Do not breathe mist/ vapours or spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

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### Special labelling of certain

**mixtures:** None

### 2.3. Other hazards

No additional information available

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1. Substances/ Mixtures

**Ingredients:** Classification is based on the following ingredients which may be present.

Substance name (IUPAC/EC)	CAS No. / EC No.	Concentration % by weight	Classification EC1272/2008
Calcium Nitrate	10124-37-5 / 233-332-1	40-50%	Oxidising solid (Category 3) H272. Acute toxicity oral (Category 4). Serious eye damage (Category 1).

*For full text of H statements see **section 16***

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in **Section 8**.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measure

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**In case of skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**In case of eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**In case of ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation:** None.

**Ingestions:** Harmful if ingested.

**Skin contact:** None.

**Eye contact:** Causes serious eye damage.

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### 4.3. Indication of any immediate medical attention and special treatment needed

None.

## 5. FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguisher media:**

**SMALL FIRE:** Use dry chemical powder, CO<sub>2</sub>, alcohol foam or water spray,

**LARGE FIRE:** Use alcohol foam, water spray or fog.

**Unsuitable extinguishing media:** None known.

### 5.2. Special hazards arising from the substance or mixture

None known.

### 5.3. Advice for firefighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Splash goggles, gloves.

**For emergency responders:** Splash goggles, gloves.

### 6.2. Environmental precautions

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours, if any. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

### 6.3. Methods and material for containment and cleaning up

**For small spills** Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

**For large spills** Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

### 6.4. Reference to other sections

See **section 7** for information on safe handling.

See **section 8** for information on personal protection equipment.

See **section 13** for information on disposal.

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### 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

**Protective measures:** Observe directions on label and instructions for use.

**Advice on general occupational hygiene:** Do not eat drink or smoke when handling this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

#### 7.3. Specific end use(s)

Use as directed. Use original container.

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### 8.1. Control parameters

**Occupational exposure limits (OEL):** None

**Biological exposure indices (BEI):** None

**Additional exposure limits under the conditions of use:** None

#### 8.2. Exposure controls

**Appropriate engineering controls:** Not required under normal use.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Use safety glasses. If there is a potential for exposure to particles/mist which could cause eye discomfort, wear chemical goggles.

**Hand protection:** Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Body protection:** A lab coat or dust coat is required when handling this product

**Respiratory protection:** Respiratory protection is required when ventilation is inadequate or discomfort is experienced; use an approved air-purifying respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

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**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

##### Material Description:

<b>Physical Form</b>	Liquid
<b>Colour</b>	Clear brown
<b>Odour</b>	No information available
<b>Odour Threshold</b>	No information available

##### General Properties

<b>pH</b>	3-4 (100%)
<b>Melting Point/ Range (°C)</b>	No information available
<b>Boiling Point/ Range (°C)</b>	No information available
<b>Viscosity</b>	No information available
<b>Density</b>	1.38-1.45g/cm <sup>3</sup>
<b>Water solubility (g/L) at 20°C</b>	No information available
<b>Fat solubility (solvent-oil to be specified)</b>	No information available
<b>Explosive properties</b>	No information available

##### Volatility

<b>Vapour Pressure</b>	No information available
<b>Vapour Density</b>	No information available
<b>Evaporation Rate</b>	No information available

##### Flammability

<b>Flash Point</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Upper/lower flammability/explosive limits</b>	No information available
<b>Flammability (solid/gas)</b>	No information available

##### Environmental

<b>n-Octanol/Water partition coefficient</b>	No information available
<b>Bioaccumulation Factor</b>	No information available
<b>Dissociation constant in water (p Ka):</b>	No information available
<b>Oxidation-reduction potential:</b>	No information available

#### 9.2. Other information

**Bulk density:** No information available.

### 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

The product is stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal storage conditions for 2 years.

#### 10.3. Possibility of hazardous reactions

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Thermal decomposition can lead to the escape of irritating gases and vapours (oxides of nitrogen). Decontamination with reducing agents or strong acids can cause formation of toxic gases (oxides of nitrogen). It can enhance combustion of other substances.

### 10.4. Conditions to avoid

Avoid high temperatures and temperatures < -10°C.

### 10.5. Incompatible materials

May be corrosive to some metals, keep away from strong acids, oxidising and reducing agents and combustible materials.

### 10.6. Hazardous decomposition products

On heating/burning release of toxic and corrosive nitrous gases/vapours.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Acute toxicity:** No information available.

**Chronic toxicity:** No information available.

**Skin corrosion/irritation:** No information available.

**Serious eye damage/irritation:** No information available.

**Respiratory or skin sensitization:** No information available.

**Germ cell mutagenicity:** No information available.

**Reproductive toxicity:** No information available.

**STOT-single exposure:** No information available.

**Aspiration hazard:** No information available.

### 11.2 Toxicokinetic, metabolism and distribution

**Non-human toxicological data:** No Information available.

**Method:** No Information available.

**Dosage:** No Information available.

**Routes of administration:** No Information available.

**Results:** No Information available.

**Absorption:** No Information available.

**Distribution:** No Information available.

**Metabolism:** No Information available.

**Excretion:** No Information available.

**11.3 Other information:** No information available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

No Information available.

### 12.2. Persistence and degradability

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No Information available.

### 12.3. Bioaccumulative potential

No Information available.

### 12.4. Mobility in soil

No Information available.

### 12.5. Results of PBT and vPvB assessment

No Information available.

### 12.6. Other adverse effects

No Information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Treat as hazardous waste and dispose of in accordance with municipal, state and national regulations.

### 13.2 Product / Packaging disposal

Treat as hazardous waste and dispose of in accordance with municipal, state and national regulations.

## 14. TRANSPORT INFORMATION

		LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/ IMO)	AIR TRANSPORT (IATA/ ICAO)
14.1.	UN number	None Allocated	None Allocated	None Allocated
14.2.	UN proper shipping name	None Allocated	None Allocated	None Allocated
14.3.	Transport hazard class(es)	None Allocated	None Allocated	None Allocated
14.4.	Packing group	None Allocated	None Allocated	None Allocated

### 14.5. Environmental hazards

**Marine pollutant:** No  
**Inland waterways:** No information

### 14.6. Special precautions for user

**Hazchem code** None Allocated

## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific to the product

This product has not been classified as either a hazardous or dangerous goods according to the: NOHSC Approved criteria for classifying Hazardous substances [NOHSC(1008:2004)] and/or Australian Code for the Transport of Dangerous goods by Road and Rail.

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**ACGIH:** American Conference of Governmental Industrial Hygienists (ACGIH)

**Relevant information regarding restrictions:**

**EU regulations:** Regulation EC 1272/2008 [EU-GHS/CLP]

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this product by the supplier.

## 16. ADDITIONAL INFORMATION

### 16.1 Indication of changes:

GHS aligned.

### 16.2 Relevant classification and H statements (number and full text):

H272 May intensify fire. H302 Harmful if swallowed. H318 Causes serious eye damage.

### 16.3 Training instructions:

Use as indicated on the label, special training may be required for application.

### 16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### 16.5 Notice to readers:

The information in the SDS may not be valid for this material if used in combination with any other materials or in any process. It is the users' responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the issuer.

Indication of changes: see date and revision number.

**Revision:** 1.0

**SDS Date:** 20 February 2021

**End of SDS**