

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

Product Identifiers

Product Name: Blaydes Basal Medium
Product Number: B514

Other means of identification

Synonyms: None

Recommended Use For Research/Laboratory Use ONLY

Restrictions on Use Products manufactured by PhytoTechnology Laboratories and supplied by Austratec Pty Ltd are intended for research and laboratory use ONLY. Products are NOT to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

Details of Importer/Supplier

Company: Austratec Pty Ltd, Factory 12/49 Corporate Blvd, Bayswater VIC 3153, AUSTRALIA
Telephone: +61 3 9729 4528
Fax: +61 3 9729 4578
Website: www.austratec.com.au

Emergency phone number 13 11 26 (24 hour – Poisons Information Centre)

2. HAZARD(S) IDENTIFICATION

GHS Classification Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition, Safe Work Australia.

GHS Label elements, including precautionary statements

Pictogram: None Signal Word: None

Hazard Statement(s) None

Precautionary statement(s)

Prevention: None

Response: None

Storage: None

Disposal: None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CAS Number: N/A EC Number: None
Formula: N/A Molecular Weight: N/A

INGREDIENT	CAS NUMBER	PERCENTAGE	HAZARDOUS
Sucrose	57-50-1	94.15%	OSHA PEL: 15 mg/m ³ , ACGIH TLV: 10 mg/m ³
Ammonium Nitrate	6484-52-2	3.14%	No exposure limits established by OSHA or ACGIH

Potassium Nitrate	7757-79-1	0.31%	No exposure limits established by OSHA or ACGIH
Calcium Nitrate	10124-37-5	0.76%	No exposure limits established by OSHA or ACGIH
EDTA, Disodium Salt, Dihydrate	6381-92-6	0.23%	No exposure limits established by OSHA or ACGIH
Ferrous Sulfate, Heptahydrate	7782-63-0	0.17%	ACGIH TLV: 1 mg (Fe)/m3
Manganese Sulfate, Monohydrate	10034-96-5	0.014%	OSHA PEL: 5 mg (Mn)/m3; ACGIH TLV: 0.2 mg (Mn)/m3
Potassium Iodide	7681-11-0	0.003%	ACGIH TLV: 0.01 mg/m3
Boric Acid	10043-35-3	0.005%	ACGIH TLV: 2 mg/m3

4. FIRST AID MEASURES

Description of first aid measures

General advice:	Consult a doctor/physician. Show this safety data sheet to the doctor in attendance.
Ingestion:	MAY CAUSE IRRITATION IF SWALLOWED. If swallowed, wash mouth out with water. Never give anything by mouth to an unconscious person. Seek medical attention.
Inhalation:	MAY CAUSE IRRITATION TO RESPIRATORY TRACT. Safely remove person to fresh air. If not breathing, begin cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Seek medical attention.
Eye contact:	DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS, TEARING, OR BLURRED VISION. Flush eye out immediately with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention if irritation persists.
Skin contact:	MAY CAUSE IRRITATION, REDDENING, ITCHING OR INFLAMATION. Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Seek medical attention.

Most important symptoms and effects, both acute and delayed

See section 2 and/or section 11

Recommendation for immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.
Specific hazards arising from the chemical	
Hazardous combustion products:	May emit toxic fumes under fire conditions.
Toxic gases produced:	Carbon dioxide and carbon monoxide.
Special protective equipment and precaution for firefighters	In the event of fire, wear full protective clothing and NIOSH (US) or EN145 (EU) approved self contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection equipment (PPE) recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place in a dry container and cover. Remove from area for safe disposal (see section 13). Flush spill area with water. Do not let product enter drain.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Provide appropriate exhaust ventilation where dust is formed. Wash thoroughly after use.

Conditions for safe storage

Keep in a tightly closed container and store in a cool, dry and well ventilated area.

Recommended Storage Temperature

2 to 6°

Incompatibilities

No data available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure control measures**

Australian Exposure Standards (TWA;STEL):

No data available

OSHA's permissible exposure limits (PEL's):

Manganese Sulfate, Monohydrate: 5 mg (Mn)/m³
Sucrose: 15 mg/m³

ACGIH threshold limit values (TLV's):

Sucrose: 10 mg/m³
Ferrous Sulfate, Heptahydrate: 1 mg (Fe)/m³
Manganese Sulfate, Monohydrate: 0.2 mg (Co)/m³
Potassium Iodide: 0.01 mg/m³
Boric Acid: 2 mg/m³

Engineering controls

Handle in accordance to general industrial hygiene and chemical safety practice.

Personal protective equipment (PPE)

Eye Face Protection:

Chemical safety shield, glasses or goggles approved under NIOSH (US) or EN166 (EU). Have eye washing facilities readily available where eye contact can occur.

Skin Protection:

Suitable protective gloves.

Body Protection:

Lab coat or protective chemical suit. Protective equipment must be selected in accordance to the amount of dangerous substance within the specific workplace.

Respiratory Protection:

Use an appropriate dust mask. Use N95 (US) or type P1 (EN143) dust mask where dust level is a nuisance. Appropriate respirator approved under NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Off-white to yellow powder

Odour

Odourless

Odour threshold

No data available

pH (31.86 g/L)

Under development

Melting point

No data available

Initial boiling point/boiling range

No data available

Flash point (closed cup)

No data available

Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammable limits (upper %)	No data available
Flammable limits (lower %)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	Soluble in water.
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under normal conditions of use and recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Moist air.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD ₅₀ (Oral, Rat)(mg/Kg):	No data available
	LD ₅₀ (Oral, Mouse)(mg/Kg):	No data available
	LD ₅₀ (Dermal, Rabbit)(mg/Kg):	No data available
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory or skin sensitisation	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Reproductive toxicity	No data available.	
Specific target organ toxicity (STOT)	Single Exposure:	No data available
	Repeated Exposure:	No data available
Aspiration hazard	No data available	

Target organs	No data available.
Medical conditions aggravated by exposure	No data available
Routes of entry	Inhalation, ingestion.
Symptoms associated with overexposure	Irritation, sneezing, gastrointestinal upset.
NIOSH/RTECS No.	Not Listed

The toxicological properties of this product have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Disposal procedure	Dispose in accordance with all applicable government, state, and environmental chemical safety practices.
EPA hazardous waste number	No data available.

14. TRANSPORT INFORMATION

UN number	ADG: Non-Dangerous Goods IMDG: Non-Dangerous Goods IATA: Non-Dangerous Goods
Proper shipping/technical name	Non-Dangerous Goods
Hazard Class	No data available
Packing group	No data available
Environmental hazards	No data available
Special precautions	No data available
Hazchem	Non-Dangerous Goods

15. REGULATORY INFORMATION

Notification Status

Australia (AICS):	Not listed
New Zealand (NZIoC):	Not determined
USA (TSCA):	Not Listed
Product No. B514	

SARA TITLE III:	Section 302 (EHS) Ingredients:	No
	Section 313 Ingredients:	No
	Section 304 (EHS/CERCLA) Ingredients:	No
	Section 311/312 Hazard:	Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
	2		0	3
NFPA Rating:	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
	2	0	0	

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