

SAFETY DATA SHEET

Issue Date: 30/06/2022 Revision Date: 30/06/2027

1. CHEMICAL INDENTIFICATION AND COMPANY INFORMATION

Product Identifiers

Product Name: X-Gal Product Number: X874

Other means of identification

Synonyms: 5-bromo-4-chloro-3-indolyl-β-D-galactopyranoside

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: 7240-90-6 EC Number: 230-640-8 Formula: $C_{14}H_{15}BrCINO_6$ Molecular Weight: 408.63 g/mol

INGREDIENT	CAS NUMBER	PERCENTAGE	HAZARDOUS
X-Gal	7240-90-6	>99%	No exposure limits established by OSHA or ACGIH

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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 monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas, hydrogen bromide gas.

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.

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Conditions for safe storage Keep in a tightly closed container and store in a cool, dry and well ventilated area. Protect from light

and moisture

Recommended Storage Temperature -20 to 0°C.

Incompatibilities Strong oxidizing agents.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

Australian Exposure Standards (TWA;STEL): No data available

OSHA's permissable exposure limits (PEL's): No data available

ACGIH threshold limit values (TLV's): No data available

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 White to off-white powder.

Odour Odourless

Odour threshold No data available

pH No data available

Melting point 230 – 240°C

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 NaOH or KOH.

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Partition coefficient (n-octanol/water)

Auto-ignition temperature

No data available

No data available

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 Moisture, sensitive to light and air, dust generation, excessive heat.

Incompatible materials Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas, hydrogen bromide gas.

11. TOXICOLOGICAL INFORMATION

LD₅₀ (Oral, Mouse)(mg/Kg): No data available LD₅₀ (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 None identified

Medical conditions aggravated by exposure None identified

Routes of entry Ingestion, inhalation,

Symptoms associated with overexposure irritation, itching, gastrointestinal upset, nausea, headache.

NIOSH/RTECS No. Not listed

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

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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 numberNo 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 (NZloC): Not determined

USA (TSCA): Not Listed

SARA TITLE III: Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA hazards

16. OTHER INFORMATION

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

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