

SECTION 1 – IDENTIFICATION

Product Identifier:	X-Gal Biotechnology Grade
Catalogue Number:	1020
Other means of identification:	5-Bromo-4-chloro-3-indolyl β -D-galactopyranoside BCIG

Recommended use of the chemical and restrictions on use:

Chromogenic substrate for β -galactosidase that can be easily detected visually over background. For R&D use only. Not for pharmaceutical, household or other uses.

Supplier Information:

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Emergency phone number:

Monday – Friday, 8:00 a.m. to 6:00 p.m. +65 6775 7318 (Singapore) +603 8943 3252 (Malaysia)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards - None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Identity: Synonyms:	X-Gal 5-bromo-4-chloro-3-indolyl-beta-D-galactopyranoside BCIG
Molecular Formula:	C14H15BrCINO6
Molecular Weight:	408.63 g/mol
CAS No.:	7240-90-6
EC No.:	230-640-8

SECTION 4 – FIRST-AID MEASURES

Eye Contact

Immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact

Immediately wash skin thoroughly with soap and copious amounts of water.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.



Ingestion

If swallowed, wash mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed Data not available.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.

Specific hazards arising from the chemical

Hazardous decomposition products formed under fire conditions - Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, and Hydrogen bromide gas

Special Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment as needed. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Minimize entry of material into sewers and drainage systems.

Methods and materials for containment and cleaning up

Clean up spills immediately, observing precautions in the safety data sheet and label. Minimize dust generation. Dispose into a chemical waste container.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes. Avoid raising dust.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container in a cool, well ventilated area, desiccated at -20°C.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limits

We are not aware of any national exposure limit.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Eye/ Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

For further information, please contact us at <u>https://base-asia.com/contact</u>.



Skin/ Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
a)	Appearance	White powder
b)	Odour	Odourless
C)	Odour Threshold	Not available
d)	рН	Not available
e)	Melting/freezing point	230 °C
f)	Initial boiling point and boiling range	Not available
g)	Flash point	Not available
h)	Evaporation rate	Not available
i)	Flammability (solid, gas)	Not available
j)	Upper/lower flammability or explosive limits	Not available
k)	Vapour pressure (mm Hg)	Not available
I)	Vapour density	Not available
m)	Relative density	Not available
n)	Solubility(ies)	Slightly soluble in water
0)	Partition coefficient: n-octanol/water	Not available



- p) Autoignition temperature Not available
- q) Decomposition temperature Not available
- r) Viscosity Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Data no available.

Chemical stability

Heat-, light-, moisture- sensitive. Stable under recommended storage conditions.

Possibility of hazardous reactions

Data not available.

Conditions to avoid

Data not available.

Incompatible material

Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: toxic fumes of carbon oxides, nitrogen oxides, hydrogen chloride gas, and hydrogen bromide gas.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

Data not available.

Skin corrosion/irritation

Data not available.

Serious eye damage/irritation Data not available.

Respiratory or skin sensitization

Data not available.

Germ cell mutagenicity

Data not available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Data not available.

Specific target organ toxicity – single exposure Data not available.

Specific target organ toxicity – repeated exposure Data not available.



Aspiration hazard

Data not available.

Other information

RTECS: Data not available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity Data not available.

Persistence and degradability Data not available.

Bioaccumulative potential Data not available.

Mobility in soil Data not available.

Other adverse effect

Data not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose off as unused product.

SECTION 14 – TRANSPORT INFORMATION				
UN Number ADR/RID: -	IMDG: -	IATA-DGR: -		
UN Proper Shipping Name:ADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA-DGR:Not dangerous goods				
Transport Hazard Class(es) ADR/RID: -	IMDG: -	IATA-DGR: -		
Packing Group ADR/RID: -	IMDG: -	IATA-DGR: -		
Environmental Hazards ADR/RID: no	IMDG: marine pollutant: no	IATA-DGR: no		
Special Precaution for Users Data not available				

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Data not available

For further information, please contact us at https://base-asia.com/contact.



SECTION 16 – OTHER INFORMATION

Date of Issue: JULY 11, 2012

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from