



Material Safety Data Sheet

| Section 1: Product and Company Identification | | | |
|---|---|--------------------|--------------|
| Product Name | 5-Bromo-4-Chloro-3-indolyl β-D-galactopyranoside; X-Gal | | |
| Catalogue Number: | ASC-1018 | CAS Number: | 7240-90-6 |
| E-mail: | Sales@ausamics.com | Website: | Ausamics.com |

| Section 2: Hazards Identification | |
|--|--|
| Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. | |
| Label elements Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. | |
| Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. | |

| Section 3: Composition / Information on Ingredients | |
|---|---|
| Substances | |
| Formula | C ₁₄ H ₁₅ BrClNO ₆ |
| Molecular weight | 408,64 g/mol |
| CAS-No. | 7240-90-6 |
| EC-No. | 230-640-8 |
| No components need to be disclosed according to the applicable regulations. | |

| Section 4: First Aid Measures | |
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| If inhaled | After inhalation: fresh air. |
| In case of skin contact | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| In case of eye contact | After eye contact: rinse out with plenty of water. Remove contact lenses. |
| If swallowed | After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. |
| Most important symptoms and effects, both acute and delayed | The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. |



Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen chloride gas

Hydrogen bromide gas

Combustible., Fire may cause evolution of:

hydrogen bromide, Hydrogen chloride gas, nitrogen oxides

Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

Section 7: Handling and storage

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities Storage conditions

Tightly closed. Dry.

Recommended storage temperature sees product label.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated



| Section 8: Exposure Controls / Personal Protection | |
|--|--|
| Control parameters | |
| Ingredients with workplace control parameters | |
| Exposure controls | |
| Personal protective equipment | |
| Eye/face protection | |
| Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses. | |
| Skin protection | |
| Full contact | |
| Material: Nitrile rubber | |
| Minimum layer thickness: 0,11 mm | |
| Break through time: 480 min | |
| Material tested: KCL 741 Dermatril® L | |
| Splash contact | |
| Material: Nitrile rubber | |
| Minimum layer thickness: 0,11 mm | |
| Break through time: 480 min | |
| Material tested: KCL 741 Dermatril® L | |
| Respiratory protection | |
| required when dusts are generated. | |
| Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. | |
| Recommended Filter type: Filter type P1 | |
| The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures must be properly documented. | |
| Control of environmental exposure | |
| Do not let product enter drains. | |

| Section 9: Physical and Chemical Properties | |
|--|-----------------------------|
| Appearance | Form: solid Color: white |
| Odor | No data available |
| Odor Threshold | No data available |
| pH | No data available |
| Melting point/freezing point | 230 °C |
| Initial boiling point and boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |



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|--|--|
| Upper/lower flammability or explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Water solubility | partly miscible |
| Partition coefficient: n-octanol/water | log Pow: 2,208 |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | Viscosity, kinematic: No data available Viscosity, dynamic: No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |
| Other safety information | |
| Bulk density | 500 kg/m ³ |

| Section 10: stability and Reactivity | |
|--|--|
| Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. | |
| Chemical stability The product is chemically stable under standard ambient conditions (room temperature). | |
| Possibility of hazardous reactions no information available | |
| Conditions to avoid no information available | |
| Incompatible materials No data available | |
| Hazardous decomposition products In the event of fire: see section 5. | |

| Section 11: Toxicological Information | |
|--|-------------------|
| Information on toxicological effects | |
| Acute toxicity | No data available |
| Skin corrosion/irritation | No data available |



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|---|--|
| Serious eye damage/eye irritation | No data available |
| Respiratory or skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available IARC: No ingredient 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 | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional Information | No data available |
| <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.</p> | |

| Section 12: Ecological Information | |
|---|--|
| Toxicity | No data available |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Other adverse effects | No data available |

| Section 13: Disposal Consideration | |
|---|---|
| Waste treatment methods | |
| Product | Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material |
| Contaminated packaging | Dispose of as unused product. |



| Section 14: Transport Information | |
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| UN number | ADR/RID: - IMDG: - IATA: - |
| UN proper shipping name | ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods |
| Transport hazard class(es) | ADR/RID: - IMDG: - IATA: - |
| Packaging group | ADR/RID: - IMDG: - IATA: - |
| Environmental hazards | ADR/RID: no IMDG Marine pollutant: no IATA: no |
| Special precautions for user | |
| Further information | Not classified as dangerous in the meaning of transport regulations. |

| Section 15: Regulatory Information | |
|---|--|
| Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. | |
| National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | |
| Chemical Safety Assessment For this product a chemical safety assessment was not carried out. | |

| Section 16: Additional Notes | |
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| Documented By | Ausamics Life Science Sales@Ausamics.com |
| Revision date | May 29, 2024 |
| Summary of Revisions | This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS). |
| Disclaimer | The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of the specific material. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text. |