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## **MATERIAL SAFETY DATA SHEET**

### **5-Bromo-4-Chloro-3-Indolyl-B-D-Glucuronic Acid Cyclohexylammonium Salt Monohydrate**

#### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product Name : X-Glucuronide Date: 25<sup>th</sup> January 2017 Version: Discofinechem3  
Company : Discovery Fine Chemicals Ltd  
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#### **2. HAZARDS IDENTIFICATION**

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

**Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008**

**This substance is not classified as dangerous according to Directive 67/548/EEC.**

##### **2.2 Label elements**

**Hazard Statements:** None

##### **Precautionary Statements**

P261 Avoid breathing dust

P281 Use personal protective equipment as required.

**R Phrases:** None

##### **S Phrases:**

S.22 Do not breathe dust

S.24/25 Avoid contact with skin and eyes

The product does not need to be labelled in accordance with EC directives or respective national laws.

##### **2.3 Other hazards - none**

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

##### **3.1 Substances**

Synonyms: X-glucuronide, X-GlcA

Formula: C<sub>14</sub>H<sub>13</sub>BrClNO<sub>7</sub>·C<sub>6</sub>H<sub>13</sub>N Molecular Weight: 521.79 g/mol CAS No: 114162-64-0

No components need to be disclosed according to the applicable regulations.

#### **4. FIRST AID MEASURES**

**If inhaled** - If breathed in, move person into fresh air. If not breathing give artificial respiration

**In case of skin contact** - Wash off with soap and plenty of water.

**In case of eye contact** - Flush eyes with water as a precaution.

**If swallowed** - Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### **5. FIRE-FIGHTING MEASURES**

##### **Suitable extinguishing media**

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

##### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** - Avoid dust formation.

**Environmental precautions** - Do not let product enter drains.

**Methods for cleaning up** - Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **7. HANDLING AND STORAGE**

**Handling** - Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage** - Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -18 °C

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

**Appropriate engineering controls** - General industrial hygiene practice.

#### **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).

**Skin 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** - Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The 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).

**Control of environmental exposure** - Do not let product enter drains.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

- a) Appearance - Form: solid
- b) Odour - no data available
- c) Odour Threshold - no data available
- d) pH - no data available
- e) Melting point/freezing point - no data available
- f) Initial boiling point and boiling range - no data available
- g) Flash point - no data available
- h) Evaporation rate - no data available
- i) Flammability (solid, gas) - no data available
- j) Upper/lower flammability or explosive limits - no data available
- k) Vapour pressure - no data available
- l) Vapour density - no data available
- m) Relative density - no data available
- n) Water solubility - no data available
- o) Partition coefficient: noctanol/water - no data available
- p) Autoignition temperature - no data available
- q) Decomposition temperature - no data available
- r) Viscosity - no data available
- s) Explosive properties - no data available
- t) Oxidizing properties - no data available

**9.2 Other safety information** - no data available

## **10. STABILITY AND REACTIVITY**

**Storage stability** - Stable under recommended storage conditions.

**Materials to avoid** - Strong oxidizing agents

#### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen bromide gas

## **11. TOXICOLOGICAL INFORMATION**

**Acute toxicity** - no data available

**Irritation and corrosion** - no data available

**Sensitisation** - no data available

**Chronic exposure** - 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.

#### **Potential Health Effects**

**Inhalation** - May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** - May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** - May cause eye irritation.

**Ingestion** - May be harmful if swallowed.

## **12. ECOLOGICAL INFORMATION**

**Elimination information (persistence and degradability)** - no data available

**Ecotoxicity effects** - no data available

**Further information on ecology** - no data available

### **13. DISPOSAL CONSIDERATIONS**

**Product** - Observe all federal, state, and local environmental regulations.

**Contaminated packaging** - Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

**ADR/RID** - Not dangerous goods

**IMDG** - Not dangerous goods

**IATA** - Not dangerous goods

### **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

#### **15.2 Chemical Safety Assessment** - no data available

### **16. OTHER INFORMATION**

#### **Text of H-code(s) and R-phrase(s) mentioned in Section 2**

Do not apply

#### **WARRANTY**

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.

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