

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company/undertaking

### Identification of substance or mixture

Product name Chromstar 4B

### Identification of company/undertaking

Supplier Bio-Link (Lanzhou) Applied Materials Co., Ltd.

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## 2. Hazards identification

The classification of substances or mixtures is based on GB13690-2009 and GB 30000-2013.

Classification of the substance or mixture Not classified.

### GHS label elements

Signal word No signal word.

Hazard statements No known significant effects or critical hazards.

### Precautionary statements

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

Hazards not otherwise classified None known.

## 3. Composition/information on ingredients

| Ingredient name | CAS number | Concentration (% w/w) |
|-----------------|------------|-----------------------|
|-----------------|------------|-----------------------|

|                |          |       |
|----------------|----------|-------|
| benzyl alcohol | 100-51-6 | < 2.5 |
|----------------|----------|-------|

#### 4. First aid measures

- Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact No known significant effects or critical hazards.
- Inhalation No known significant effects or critical hazards.
- Skin contact No known significant effects or critical hazards.
- Ingestion No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact No specific data.
- Inhalation No specific data.
- Skin contact No specific data.
- Ingestion No specific data.

#### Indication of any immediate medical attention and special treatment needed

- Treatment Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

#### 5. Fire-fighting measures

Extinguishing media

|                              |                                                               |
|------------------------------|---------------------------------------------------------------|
| Suitable extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
|------------------------------|---------------------------------------------------------------|

|                                |             |
|--------------------------------|-------------|
| Unsuitable extinguishing media | None known. |
|--------------------------------|-------------|

Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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**6. Accidental release measures**Personal precautions, protective equipment and emergency procedures

|                             |                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                          |                                                                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For emergency responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                           |                                                                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Methods and materials for containment and cleaning up

|             |                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small spill | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| Large spill | Stop leak if without risk. Move containers from spill area. Prevent entry into |
|-------------|--------------------------------------------------------------------------------|

sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

### Precautions for safe handling

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective measures                                          | Put on appropriate personal protective equipment (see Section 8).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Advice on general occupational hygiene                       | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.                                                                                                                                                                                                                                                                                  |
| Conditions for safe storage, including any incompatibilities | Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

## 8. Exposure controls/personal protection

### Control parameters

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| Environmental                    | Emissions from ventilation or work process equipment should be checked                             |

exposure controls to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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## **9. Physical and chemical properties**

Physical state

Liquid

|                                                         |                            |
|---------------------------------------------------------|----------------------------|
| Color                                                   | White. White to yellowish. |
| Odor                                                    | Not available.             |
| Odor threshold                                          | Not available.             |
| pH                                                      | Not available.             |
| Melting point/freezing point                            | Not available.             |
| Boiling point, initial boiling point, and boiling range | Not available.             |
| Flash point                                             | Not available.             |
| Burning time                                            | Not applicable.            |
| Burning rate                                            | Not applicable.            |
| Evaporation rate                                        | Not available.             |
| Flammability (solid, gas)                               | Not available.             |
| Lower and upper explosive (flammable) limits            | Not available.             |
| Vapor pressure                                          | Not available.             |
| vapor density                                           | Not available.             |
| Relative density                                        | Not available.             |
| Solubility in water                                     | Not available.             |
| Partition coefficient: n-octanol/ water                 | Not applicable.            |
| Auto-ignition temperature                               | Not available.             |
| Decomposition temperature                               | Not available.             |
| SADT                                                    | Not available.             |
| Viscosity                                               | Not available.             |
| Flow time (ISO 2431)                                    | Not available.             |

## 10. Stability and reactivity

|                                    |                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------|
| Reactivity                         | No specific test data related to reactivity available for this product or its ingredients.           |
| Chemical stability                 | The product is stable.                                                                               |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | No specific data.                                                                                    |
| Incompatible materials             | No specific data.                                                                                    |
| Hazardous decomposition products   | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11. Toxicological information

### Acute toxicity

| Product/ingredient name | Result      | Species | Dose       | Exposure |
|-------------------------|-------------|---------|------------|----------|
| Benzyl alcohol          | LD50 Dermal | Rabbit  | 2000 mg/kg | -        |
|                         | LD50 Oral   | Rat     | 1230 mg/kg | -        |

### Information on toxicological effects

|                                                    |                |
|----------------------------------------------------|----------------|
| Irritation/Corrosion                               | Not available. |
| Sensitization                                      | Not available. |
| Mutagenicity                                       | Not available. |
| Carcinogenicity                                    | Not available. |
| Reproductive toxicity                              | Not available. |
| Teratogenicity                                     | Not available. |
| Specific target organ toxicity (single exposure)   | Not available. |
| Specific target organ toxicity (repeated exposure) | Not available. |
| Aspiration hazard                                  | Not available. |

## 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                    | Exposure |
|-------------------------|-----------------------------------|----------------------------|----------|
| benzyl alcohol          | Acute LC50 10000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |

### Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis           | Biodegradability |
|-------------------------|-------------------|----------------------|------------------|
| benzyl alcohol          | -                 | 92 to 96%; 28 day(s) | Readily          |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF  | Potential |
|-------------------------|--------------------|------|-----------|
| benzyl alcohol          | 0.87               | 0.32 | low       |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) Not available.

Other adverse effects No known significant effects or critical hazards.

### **13. Disposal considerations**

#### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

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### **14. Transport information**

Product is not regulated as dangerous goods for transport.

#### Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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### **15. Regulatory information**

The following laws, regulations and standards have made corresponding provisions on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals:

Catalogue of hazardous chemicals

Classification and variety catalogue of precursor chemicals

List of explosive prone hazardous chemicals

The chemical meets the requirements of the regulations on the safety management of hazardous chemicals.

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## 16. Other information

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Preparation               | Bio-Link (Lanzhou) Applied Materials Co., Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Department                | Quality Assurance Department.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Revision                  | Add the department responsible for preparation, document number, and issue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Explanation               | date. When relevant laws and regulations are updated or new national laws and regulations are introduced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| According to the standard | Contents and Items of Technical Specifications for Safety of Dangerous Chemicals (GB/T16483-2008) and General Rules for Classification and Hazard Publicity of Chemicals (GB13690-2009)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Disclaimer                | The content of the Material Safety Data Sheet is based on an understanding and summary of existing knowledge, and the information is true and reliable. However, it is only for reference. All materials have unknown hazards, and customers need to operate with caution. Due to our inability to control the actual methods, doses, or conditions used, we are not responsible for any damage or loss caused by handling or contact with the products described in this article. The information in this safety data sheet makes no express or implied warranties, including no implied warranties of merchantability or suitability for any specific purpose. |