

# CH Biotech R&D Co., Ltd.

## Safety Data Sheet

SDS # CHB-002

### Section 1 Identification

Produced by: CH Biotech LLC.  
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Telephone: +1-909-472-3033  
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TSCA Status: Exempt  
Product name: **Gibberellic Acid (GA<sub>3</sub>) Technical**  
Molecular formula: C<sub>19</sub>H<sub>22</sub>O<sub>6</sub>  
Molecular weight: 346.38  
Product use: Plant growth regulator

### Section 2 Hazard(s) identification

Physical hazards: None  
Health Hazards: Do not inhale. Avoid eye and skin contact

### Section 3 Composition/information on ingredients

<u>Identity</u>	<u>CAS #</u>	<u>Typical %</u>
GA <sub>3</sub>	77-06-5	92
Other ingredients		8

### Section 4 First aid measures

If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.  
If on skin: Immediately wash material off the skin with plenty of soap and water. If unable to wash immediately or tingling, numbness or a burning sensation develops apply skin cream or an oil-based solution to the affected area. If irritation persists, get medical attention.  
If swallowed: Provided the patient is conscious, wash out mouth with water. Immediately contact medical personnel or an emergency facility. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.  
If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is labored, give oxygen. Obtain medical attention.

Provide symptomatic/supportive care as necessary.

### Section 5 Fire-fighting measures

Extinguishing Media: Use appropriate medium for underlying cause of fire.  
Procedures: Wear protective clothing and self-contained breathing apparatus  
Unusual fire/Explosion hazards: N/D

### Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

## **Section 7 Handling and storage**

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

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

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 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.

#### **Body Protection**

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

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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.

## **Section 9 Physical and chemical properties**

Appearance: White odorless crystals

Solubility: N/D  
Boiling point: N/D  
pH: N/D  
Density: N/D  
Vapor pressure: N/D  
Melting Point: 233-235°C

#### **Section 10 Stability and reactivity**

Reactivity: N/A  
Chemical stability: Stable under recommended storage conditions.  
Possibility of hazardous reactions: N/A  
Conditions to avoid: N/A  
Incompatible materials: Strong oxidizing agents

Hazardous decomposition products  
Other decomposition products: N/A  
In the event of fire: see section 5

#### **Section 11 Toxicological information**

Acute toxicity: N/A  
Dermal toxicity: N/A  
Inhalation: N/A  
Skin corrosion/irritation: N/A  
Serious eye damage/eye irritation: N/A  
Respiratory or skin sensitization: N/A

#### **Section 12 Ecological information**

Toxicity  
Toxicity to fish: N/A  
Persistence and degradability: N/A  
Bioaccumulative potential: N/A  
Mobility in soil: N/A  
Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: N/A

#### **Section 13 Disposal considerations**

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

#### **Section 14 Transport information**

Not regulated by DOT.

**Section 15      Regulatory information**

N/A

**Section 16      Other information**

Date of preparation:      October 30<sup>th</sup>, 2014  
Date of last revision:      January 20<sup>th</sup>, 2016  
Legend:                      N/A = Not Applicable  
                                     N/D = Not Determined  
                                     NL = Not listed

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