



SHANGHAI MINGDOU AGROCHEMICAL CO., LTD

Add: Rm 1210, Zhenyuan Building, No. 2052 North Zhongshan Rd, Shanghai, China

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MATERIAL SAFETY DATA SHEET OF GIBBERELIC ACID 20% TB

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: SHANGHAI MINGDOU AGROCHEMICAL CO., LTD

Address: Rm. 1210, Zhenyuan Building, No. 2052 North Zhongshan Rd, Shanghai, China

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Product name: Gibberellic acid 20% tablets

Product use: Plant growth regulator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Tablet

Active Ingredients: Gibberellic acid

Chemical Abstracts name:

(1 α ,2 β ,4 α ,4 β ,10 β)-2,4a,7-trihydroxy-1-methyl-8-methylenegibb-3-ene-1,10-dicarboxylic acid 1,4a-lactone

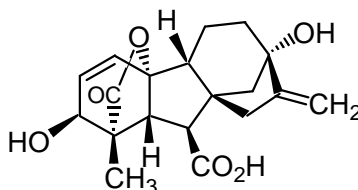
Chemical Family: gibberellins

CAS NO. 77-06-5

Molecular Formula: C₁₉H₂₂O₆

Molecular Weight: 346.4

Structural Formula:



Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION
Gibberellic acid	77-06-5	≥20%
Inerts	Not available	≤80%



3. HAZARDS IDENTIFICATION

Emergency overview: This is expected to be a low hazard for usual industrial handling. Keep out of reach of children. Avoid contact with skin and eyes.

4. FIRST AID MEASURES

General: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Skin contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Note to physician: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point: NA

Flammable limits: Not determined.

Autoignition temperature: Not determined.

Hazardous combustion products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Water spray may cause frothing.

Protective equipment for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

6. ACCIDENT RELEASE MEASURES

Personal precautions: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind.

Environmental precautions: Isolate hazard area and deny entry. Keep unnecessary people away. Take immediate steps to stop and contain the spill. Caution should be exercised regarding personnel safety and exposure to the spilled material.

Method for cleaning up: Vacuum or sweep up material and place into a suitable disposal container. Clean



up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Handling: Read the label before use. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: No exposure limits have been established for this material.

Engineering controls: Use adequate ventilation to keep airborne concentrations low.

Personal protective equipment (PPE):

Respiratory protection: Use a NIOSH/MSHA respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Skin protection: Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White tablet.

Odor: None reported.

Vapor Pressure: Negligible.

Vapor Density: Not available.

Appearance: White powder.

Solubility: Soluble in water.

Decomposition Temperature: Not available.

10. STABILITY AND REACTIVITY

Chemical stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to avoid: High temperatures, incompatible materials, excess heat.

Hazardous decomposition products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.



Incompatible materials: Strong oxidizers.

Hazardous reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral: LD₅₀ rat: >2000 mg/kg

Dermal: LD₅₀ rat: >2000 mg/kg

Inhalation: LC₅₀ rat: >2 mg/l

Irritant properties:

Skin: Non-irritating to skin

Eye: Non-irritating to eye

Allergenic and sensitizing effects:

Not considered to be a skin sensitizer (Guinea pig).

12. ECOLOGICAL INFORMATION

The following information is for the active ingredient, Gibberellic acid.

Birds Acute oral LD₅₀: for bobwhite quail >2250 mg/kg

Dietary LC₅₀ (5 days): for bobwhite quail >4640 mg/kg.

Fish LC₅₀ (96 h): for rainbow trout >150 ppm.

Algae EC₅₀: 10 mg/l

Bees LD₅₀ (oral): 5 µg/bee

13. DISPOSAL CONSIDERATION

Triple or pressure rinse the empty container. Add the rinsings to the spray tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make container unsuitable for further use. Dispose of container in accordance with provincial requirements. For information on the disposal of unused, unwanted product contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

14. TRANSPORT INFORMATION

UN Number: Not regulated.

UN Proper shipping name: Not regulated as a hazardous material.

Transport hazard class: NA

Packing group: NA



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Marine pollutant: No

15. REGULATORY INFORMATION

Hazard symbols:

None

Risk phrases:

None

Safety phrases:

S2 Keep out of reach of children.

S24/25 Avoid contact with skin and eyes.

16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

END OF MSDS