



AOWEI AGRICULTURAL TECHNOLOGY CO., LTD.

ADD: NO. 27, CBD BUSINESS INNER RING ROAD, ZHENGDONG NEW DISTRICT, ZHENGZHOU, CHINA

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Material safety data sheet

1. Chemical product and company identification

Product name : Gibberellic Acid GA3 90% TC

Product description : White Powder

Manufacturer : AOWEI AGRICULTURAL TECHNOLOGY CO., LTD.

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2. Composition/information on ingredients

Gibberellin Acid 90%Tc

CAS no. 77-06-5

3. Hazards identification

Emergency overview : CAUTION! Irritating to respiratory tract. Avoid contact with eyes.

Keep out of reach of children!

Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water or areas that are regularly under water.

Potential health effects

Signs of acute overexposure : Skin, eye, and mucous membrane irritation. May cause central system depression. Symptoms include giddiness, headache, dizziness and nausea; in extreme cases unconsciousness and death may occur.

Signs of chronic overexposure : Same as for acute exposure.

Carcinogenicity : GA3 has shown an increased incidence of uterine polyps at the highest dose tested in the female rat.

Medical conditions aggravated by exposure : Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate acute and chronic asthma and other chronic pulmonary diseases.

4. First aid measures

Eyes: Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately if there is any sign of irritation or other problems.

Inhalation : Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately if the victim requires any first aid other than removal to fresh air.

Ingestion : Immediately dilute the swallowed product by giving large quantities of water or milk. Induce vomiting by giving Syrup of Ipecac according to the directions on the bottle or by touching the back of the tongue with a finger. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Skin : Immediately flush all affected areas with large amounts of clear water for at least 15 minutes. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. If skin irritation persists, contact a

physician.

Note to physicians : No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. For more information, contact your local Poison Control Center.

5. Fire fighting measures

Flammable properties

Flash Point: Not applicable

Autoignition Temperature: Not applicable

Flammable Limits:

Lower flammable limit: Not applicable

Upper flammable limit: Not applicable

Explosivity

Mechanical Impact : Excessive dusts are potentially explosive

Static Discharge : Excessive dusts are potentially explosive. Good housekeeping to prevent accumulation of dust and the generation of dust clouds is the best prevention.

Hazardous combustion products : Combustion products may include carbon oxides, nitrogen oxides and other unknown vapors and fumes.

Extinguishing media : Water spray, dry chemical, alcohol foam, or carbon dioxide.

Fire fighting instructions : In the event of a fire, wear full protective clothing and NIOSH –approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Evacuate people who are downwind of fire. Wash all protective clothing before reuse.

6. Accidental release measures

General : Wear all personal protective equipment (See Section 8). Don't breathe dusts. Take care not to raise a dust cloud during cleanup. Extinguish all open flames. Use spark proof equipment. Keep spectators upwind from spill.

Small spill : Carefully scoop up or vacuum the spilled product into containers for reuse or disposal as a hazardous waste. Clean residual solids by scrubbing with soap and water. Cleanup materials should also be taken up as hazardous waste.

Large spill : Same as for a small spill.

7. Handling and storage

Handling: Prevent inhalation of dust by working with adequate ventilation. Prevent contact by wearing appropriate Personal Protective Equipment (PPE, Section 8 below). Wash thoroughly after handling. Enforce "No Smoking Rules". Use explosion-proof motors and electrical gear.

Storage: Store in the original container in a cool, dry, ventilated area. Protect against physical damage. Keep separate from fertilizers, seeds, insecticides or fungicides. Keep away from children and pets. Keep away from open flames and non-explosion proof motors and electrical gear.

8. Exposure controls/personal protection

Engineering Controls: A system of local and/or general exhaust is recommended to keep exposures to dusts below the recommended TLV's.

Respiratory protection: A MSHA/NIOSH-approved respirator fitted with organic vapor cartridges and dust covers or approved dust masks are required if the dust cannot be controlled below the TLV by engineering controls.

Skin protection: The following personal protective equipment (PPE) is required for

use with this product - long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

Eye protection: Safety glasses are required whenever a person is working with hazardous chemicals. Goggles should be worn when there is a chance of dust being generated. An eyewash bath should be available in case of dust exposure to the eyes.

9. Physical and chemical properties

Physical State: Solid

Appearance: White Powder

Odor: Not available

Odor Threshold: Not established

Boiling Point: Not applicable

Freezing/Melting Point: 227°C

Specific density: Not available

Vapor Pressure (mm/Hg): Not applicable

Vapor Density: Not applicable

Solubility in Water: Difficult to dissolve in water

Solubility (Other): soluble in alcohol, ketone, ester etc organic solvent and pH = 6.3 of phosphoric acid buffer solution

Partition Coefficient (O/W): Not determined

PH (as 5% slurry): Not available

Evaporation Rate: Not applicable

10. Stability and reactivity

Chemical stability (Conditions to avoid): Stable under normal use and storage conditions.

Incompatibility: Avoid strong oxidizing agents.

Hazardous decomposition products: Burning may cause the formation of carbon oxides, sulfur oxides, nitrogen oxides and unknown fumes and vapors.

Hazardous polymerization: This product will not polymerize.

11. Toxicological information

INGESTION: Oral LD (rat): > 6300mg/kg 50

Dermal Skin LD (rabbit):> 2000 mg/kg 50

Irritation Eye irritation (rabbit): Minimal irritant

Skin irritation (rabbit): No evidence of irritation (GA3)

Sensitization Skin sensitization: No evidence of sensitization potential

(guinea pig) (GA3)

Teratogenicity : Maternal toxicity and developmental effects on the fetus were seen at the highest dose level tested (300mg/kg/day) in the rabbit, GA3.

Mutagenicity: No evidence of mutagenicity in laboratory testing of GA3.

Carcinogenicity : An increased incidence of uterine polyps has been seen at the highest dose tested in the female rat with GA3

Reproductive toxicity : No evidence of reproductive toxicity has been observed with GA3. At the highest dose tested there was some evidence of parental toxicity with accompanying associated effects on offspring survival and growth.

Toxicologically synergistic products : No data available.

12. Ecological information

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. Disposal considerations

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed on site by use according to the label or at an approved waste disposal facility. Do not reuse the empty container. Check with the appropriate Federal, State and local authorities to determine the current regulations for your area.

14. Transportation information

General Description: 25KG/DRUM

15. Regulatory information

CAS Number :77-06-5

EINECS Number : 201-001-0

Hazard Indication : HARMFUL ~ IRRITANT

Immediate Health Hazard : Yes

Delayed Health Hazard : No

Fire Hazard : No

Reactive Hazard : No

Sudden Pressure Release Hazard : No

Risk and Safety Phrases

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

Keep away from food, drink and animal feeding stuffs.

TSCA: Listed substance.

16. Other information

Disclaimer:

This information is provided for the limited guidance to the user. While PANPAN INDUSTRY CO., LIMITED believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.