



NUFARM

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL IDENTIFICATION

Product Name:	<b>GibGro 20%</b>	EPA Registration No:	55146-53
EPA Signal Word:	Caution	CAS No.:	77-06-05
Active Ingredient (%):	Gibberellic Acid		
Chemical Name:	GA <sub>3</sub>		
Molecular Formula:	C <sub>19</sub> H <sub>22</sub> O <sub>6</sub>		
Chemical Name:	346.40		
Chemical Class:	Plant Growth Regulator		

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	% by weight	ACGIH Other	OSHA TLV	NTP/IARC/OSHA Carcinogen
Gibberellic Acid	20%			

\* Components not precisely identified are proprietary or not hazardous.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This material is an eye irritant. Target organs include the eyes and respiratory system.

#### POTENTIAL HEALTH EFFECTS

Eye Irritation: Moderately to severely irritating to the eyes. May cause eye irritation.

### 4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
Eye Contact:	Hold eyelids open and flush with water for 15-20 minutes until no evidence of chemical remains. Get professional medical attention.
Skin Contact:	Remove contaminated clothing and shoes. Wash with plenty of soap and water for 15-20 minutes until no evidence of chemical remains. Get professional medical attention.
Ingestion:	Immediately give 2 glasses of water. Never give anything to an unconscious person. Get professional medical attention.

### 5. FIRE FIGHTING MEASURES

Flash Point & Method:	Not Applicable
Flammable Limits:	Not Applicable
Autoignition Temperature:	Not Applicable

## FIRE FIGHTING HAZARDS & PROCEDURES

General Hazard:	None Determined.
Extinguishing Media:	Use dry chemical, carbon dioxide, water spray or foam. No incompatible fire fighting media known.
Fire Fighting Equipment:	Wear full protective clothing and self-contained breathing apparatus with full face piece.
Hazardous Combustion Products:	None known.

## **6. ACCIDENTAL RELEASE MEASURES**

Land Spill:	Sweep up product and place in appropriate container for disposal. Avoid dust. Ventilate spill area.
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## **7. HANDLING AND STORAGE**

General Information:	Keep in closed or covered containers when not in use. Store in cool, dry, and well ventilated area. Do not store or consume food, drink or to areas where they may become contaminated with this material.
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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### MANUFACTURING, COMMERCIAL BLENDING, & PACKAGING WORKERS

Follow label instructions when handling this product.

Ventilation:	Local exhaust to control dust at its source.
Respiratory Protection:	A NIOSH/MSMA approved respirator with organic vapor canister or self-contained breathing apparatus is recommended.
Eye Protection:	Wear chemical splash goggles in compliance with OSHA regulations.
Protective Clothing:	Wear protective gloves such as butyl or nitrile rubber.

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

Vapor Pressure:	Not Applicable
Density:	0.692
Solubility in Water:	Completely soluble
pH:	Not determined
Melting Point:	235°C
Viscosity:	Not Applicable
Odor:	None detected
Color:	White
Physical State:	Powder

## **10. STABILITY AND REACTIVITY**

### STABILITY AND REACTIVITY

General:	This material is stable under normal conditions. Avoid excessive heat.
Incompatible Materials:	None determined
Conditions to Avoid:	None determined
Hazardous Decomposition:	None determined
Hazardous Polymerization:	Material is not known to polymerize.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Inhalation:	Acute inhalation LC <sub>50</sub> (4 Hr Dust) - >0.502 mg/L Rats – Male and Female
Eye Irritation:	Produces moderate to severe conjunctival irritation, reversible in 7 days, was found in eye irritation tests in rabbits with gibberellic acid.
Skin Irritation:	Not considered to be a skin irritant or sensitizer. Guinea Pig Sensitization – Non-sensitizer.
Ingestion:	Oral: LD50 (rats): Male>5,000 mg/kg Female > 5,000 mg/kg

### CHRONIC:

Special Health Effects:	Primary Eye Irritation (Rabbits) – Slight irritant Primary Skin Irritation (rabbits) – Non-irritating. Primary route of entry – inhalation. Gibberellic acid is a growth hormone that has been reported to have estrogenic and androgenic activity in animals. In reproduction studies in rats, no maternal or fetal to adverse effects to the fetus were noted following large dosages (1,000 mg/kg/day) of gibberellic acid. The primary component is a central nervous system depressant. Repeated exposure at high concentrations (2.5% or greater in drinking water) Produced a variety of reproductive, fertility, and developmental effects in rats.
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## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATION

Comply with appropriate disposal regulations. Landfill solids at permitted sites. Use registered transporters. Do not flush to surface water or sanitary sewer systems.

## 14. TRANSPORT INFORMATION

DOT Shipping Name:	Plant Growth Regulator N.O.S.
International Air Transport Association (IATA):	Not Regulated
International Maritime Organization (IMO):	Not Regulated

HAZARD CLASSIFICATION (0-minimal, 1 -slight, 2-moderate, 3-serious, 4-severe)

NFPA: HEALTH- 1 FIRE- 0 REACTIVITY- 0  
HMIS: HEALTH- 1 FIRE- 0 REACTIVITY- 0

**Note:** Inhalation data generated using a smaller particle size than is reasonably foreseeable to be encountered by a human during transport. Since a mist is not likely to be generated in a leakage of the transport containment, this material is not regulated for transport per DOT 49 CFR 173.132 (b) (3), IATA 3.6.3.3, IMO IV / 6.1 / 2.2.3, RID / ADR 2600 / 2.5.

## 15. REGULATORY INFORMATION

OSHA:	This product is considered hazardous under the OSHA Hazardous Communication Standard 29 CFR 1910.1200.
TSCA:	All product components are on the TSCA Chemical Inventory and should be considered for experimental use only.

CERCLA:	Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304 and 40 CFR Part 304.
RCRA:	When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33.
SARA TITLE III	
311/312 Hazard Categories:	This product has been reviewed according to the EPA "Hazard Categories" and is categorized as an acute health hazard (40 CFR 370.41).
313 Reportable Ingredients:	This product does not contain any materials listed in Section 313 above of the Superfund Amendment and Reauthorization Act of 1986 or 40 CFR Part 372.

<b>16. OTHER INFORMATION</b>
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