



M/s. Pushpa. J. Shah  
Mfg. PLANT GROWTH PRODUCTS

## **Material Safety Data Sheet**

### **Section 1- Product and Company Identification**

Product Name: **MIRACLE GRANULES**

Product Use: Plant Growth Regulator

Chemical Formula: N.A

Manufactured By: M/s. Pushpa J. Shah, Plot No. 906/15, Near Ganesh Anand Chokadi, GIDC Panoli-394116, Tal. Ankleshwar, Dist. Bharuch, GUJARAT

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### **Section 2- Composition/Information on Ingredients**

Description: Mixture of triacontanol(0.05-0.06%) preservatives ,adjuvants and balance benonite granules

CAS Number: 593-50-0

### **Section 3- Hazards Identification**

Not considered a hazardous product. Irritating to skin and eye and respiratory tract.

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

Product may feed combustion.

Store away from heat.

Potential Health Effects: None known.

Signs and Symptoms of Exposure: irritation of skin and eyes and respiratory tract.

### **Section 4- First Aid Measures**

Ingestion: The mouth should be thoroughly washed out with water, if person is conscious, give large amounts of water. Do not induce vomiting. Seek medical attention.

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during flushing to ensure rinsing of entire surface of the eye and lids with water. Do not let victim rub eyes. Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation

Skin: Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse and discard footwear which cannot be cleaned. Seek immediate medical attention if irritation occurs.

Inhalation: Move to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's aid. If not breathing, give artificial respiration. Seek medical attention.

### **Section 5- Fire-Fighting Measures**

Special Fire-Fighting Procedures: As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full-faced, self contained breathing apparatus, and impervious protective clothing.

Unusual Fire and Explosion Hazards: In case of fire or explosion, do not breathe fumes. Nitrogen and sulfur oxides may develop.

Hazardous Combustion Products: In case of fire or explosion, do not breathe fumes. Nitrogen and sulfur oxides may develop.

## Section 6- Accidental Release Measures

In Case of Spill: Sweep spilled product and collect for reuse. Wash residue away. Do not contaminate drain. Soak up wash water with sand or absorbent material. Sweep up and dispose.

## Section 7- Handling and Storage

Storage: Keep container well closed and store in a dry, well ventilated place away from sunlight. The product is hygroscopic and photosensitive. Avoid extremes of temperatures.

## Section 8- Exposure Controls/Personal Protection

Skin Protection: Skin contact should be prevented through use of suitable protective clothing, PVC rubber gloves and footwear, selected with regard for use conditions and exposure potential.

Respiratory Protection: Use of respiratory protection is generally not required. However, if use conditions generate

dust and adequate ventilation (e.g., outdoor or well-ventilated area) is not available, use a NIOSH-

Eye Protection: Use chemical safety glasses with side shields or splash proof goggles and face shield.

Maintain eye wash fountain and quick-drench facilities in work area.

Other Protection: Product is easily removed with soap and water. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Exposure Limits: No specific recommendations.

Hygienic Practices: Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing and launder before reusing. Cleanse skin thoroughly after

## Section 9- Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state : Granules

Appearance and odor : Dark black to brown coloured

Odour : characteristic odour of seaweed.

Odor threshold : Not available.

Vapor pressure : Not Applicable

Vapor density : Not Applicable

Evaporation rate : Not Applicable

Boiling point : Not Applicable

Melting point : Not Applicable.

pH (1% solution) : 5-8

Water / oil distribution coefficient: Not Applicable.

Solubility : Insoluble in water.

Auto-ignition temperature : Product is not self igniting.

Decomposition temperature : Not Relevant

Explosive properties : Product is not explosive.

## Section 10- Stability and Reactivity

Stable under recommended storage and handling conditions.

Conditions to Avoid: None

Incompatible Materials: The liquid solution develops hydrogen upon contact with copper or aluminum.

Hazardous Decomposition Products: Toxic fumes of nitrogen and sulfur oxide at temperatures above the decomposition temperature.

Polymerization Conditions to Avoid: None

### Section 11- Toxicological Information

Eye Effects: No data found

Skin Effects: No data found

Dermal Toxicity: No data found

Inhalation Effects: No data found

Sensitization: No data found

Ingestion Effects: No data found

Carcinogenicity/Mutagenicity: Not listed as a carcinogen by NTP, IARC or OSHA. No information found on

Reproductive Effects: No data found

Neurotoxicity: No data found

Target Organs: No data found

### Section 12- Ecological Information

No experimental ecological data is available for this product.

### Section 13- Disposal Considerations

Product: According to local regulations.

Contaminated Packaging: No specific recommendations.

### Section 14- Transport Information

Product Shipping Name: **Miracle granules**

Label Requirement: None

Packing Group: None

UN: None

Not a hazardous material for transportation.

### Section 15- Regulatory Information

Product related hazard informations: Observe the general safety regulations when handling chemicals

### Section 16- Other Information

**Disclaimer:** The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product

User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.