

## MATERIAL SAFETY DATA SHEET

### NUTROMAX MSDS

#### Section .1 Product and Company Identification

Manufacturer's Name : M/s Pushpa J Shah  
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 Product Name : NUTROMAX  
 Product Code : NA  
 Family/ Group : Bio Fertilizer /Plant growth promoter  
 Chemic Formula : Mixture  
 Other designation : Granular Bio fertilizer

#### Section. 2 Composition of Product

Sr No.	Ingredients Name	CAS NO	Composition (%) w/w
1	Vesicular Arbuscular Mycorrhiza	NA	0.832 % Min
2	Amino Acids 75 %	68607-88-5	0.282 % Min
3	Ascophyllum Nodosum Extract	84775-78-0	0.798 % Min
4	Humic Acid	68514-28-3	0.961 % Min
5	Ascorbic Acid	50-81-7	0.409 % Min
6	Myo-inositol	87-89-8	0.117 % Min
7	Thiamine	532-43-4	0.067 % Min
8	Alpha Tocopherol	7695-91-2	0.033 % Min
9	Bentonite Granules	1318-93-0	89.82 % Max
9	Water as diluents	7732-15-8	08.70 %

*Ingredients not precisely identified are proprietary and/or non-hazardous.*

#### Section. 3 Hazard Identification

##### Emergency Overview

The product is a black coloured granular formulation, non-toxic, non-hazardous, non inflammable with a characteristic earthy odour which is intended to be used as a Biofertilizer and plant growth promoter. There is no specific antidote for any form of irritation observed. Treat symptomatically. Immediately seek medical attention.

**Potential Acute Health Effects :**

Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation (lung irritant, lung sensitizer). Long term exposure to the product dust could cause slight effects on respiratory system. In wet condition may cause slipping hazard.

**Potential Chronic Health Effects :**

**CARCINOGENIC EFFECTS** : Not available ;

**MUTAGENIC EFFECTS** : Not available

**TETRATOGENIC EFFECTS** : Not available ;

**DEVELOPMENTAL TOXICITY** : Not available.

## Section. 4 First Aid Measures

### General

**Non hazardous material, If irritation or discomfort occurs, seek medical advice.**

**Eye contact** : Immediately flush eyes with plenty of water for 15 to 20 minutes.

Hold the eye lids apart to rinse the entire surface of eyes and lids.

If irritation continues Seek medical attention.

**Skin contact** : Wash the skin thoroughly with water, including hair and under finger nails. No medicating agents should be applied except on the advice of physician. Remove contaminated clothing and footwear.

**Inhalation:** Move the person to fresh air. Get medical advice if adverse symptoms appear.

**Ingestion:** The product is not harmful if ingested. Rinse the mouth with plenty of water Get medical advice If any adverse symptoms appear. Do not induce vomiting.

**First Aid Responders:** Wear rubber or nitrile gloves to prevent staining of skin.

## Section. 5 Fire Fighting Measures

The material is non-flammable and non-explosive.

**Suitable extinguishing media:** Carbon dioxide , foam, powder and nebulised water, according to material stored in the immediate neighbourhood.

**Unsuitable extinguishing media:** Unsuitable extinguishing media not known.

**Hazardous combustion products:** Thermal decomposition or combustion may generate toxic and hazardous fumes of Carbon Dioxide, Nitrous oxide.



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**Special Fire-Fighting Information:** Though the material is not considered as a fire or explosion hazard wear, full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Use of contaminated buildings, area and equipment has to be avoided until decontaminated.

**Unusual Fire and Explosion Hazards:** Not known.

## Section. 6 Accidental Release Measures

**For non-emergency personal:** No action shall be taken without suitable training.

Evacuate personnel to safe areas. Ventilate areas.

Remove all source of ignition.

**For emergency responders:** Stop the leak, if it can be done safely. Wear appropriate protective equipment (see section 8) to minimise exposure to the product.

**Environmental precautions:** In case of significant release to the environment avoid allowing the substance reach drains, surface water, ground water and soil.

### Methods and material for

**contamination and clean up:** Containment techniques and clean up procedures: Stop the spill if it can be safely. Collect the material with mechanical means, wearing appropriate protective equipment, and store in a clean and appropriate waste disposal container. Wash the area with water.

- \* Small spills : May be washed to drain.
- \* Large spills : Contain spill with sand, saw dust , absorbent clay or Similar material. Sweep up and transfer the material in to labeled containers for transfer to a safe place for disposal. Flush the area with plenty of water when all the spillage has been removed. This product may stain the concrete.

Since this product is a Bio fertilizer / growth promoter can be salvaged in agricultural fields.

## Section. 7 Handling and Storage

**Recommendations for handling :** Handle in a well-ventilated place. Wear suitable personal protective equipment (Sec 8) Keep the substance away from drains, surface or ground waters. If irritation occurs get medical advice/attention. Keep out of reach of children. Avoid excessive handling, it may cause staining of skin.

### Recommendations for personal

**Hygiene:** Do not eat, drink and smoke in the working areas.

Wash hands after handling the substance.

Remove contaminated clothing and protective equipment before entering eating areas.

**Recommendations for storage:** It can be stored in a cool, well-ventilated dry area avoiding

Direct exposure to sunlight. Keep containers tightly closed.

Store in containers correctly labelled. Protect from frost.

Keep away from food, drink and animal feeding stuffs and out of reach of children.

**Shelf Life:** Use before expiry date printed on label

### Recommendations for

**Specific end use:** It is used as a Bio fertilizer/ growth promoter for use in agriculture and horticulture.

Avoid contact with eyes, skin and inhalation of the Vapours/fume/gas/spray/dust.

The substance is not classified as dangerous according to the criteria of classification, Labelling and Packaging of Substances and Mixtures.

## Section. 8 Exposure Controls and Personal Protection

**Personal Protective Equipment:** Protective clothing should be selected specifically for the working place, depending on concentration and quality of the hazardous substance handled. The resistance of the protective clothing to chemical should be ascertained with respective supplier.

**Eye protection:** Approved safety glasses to avoid particulate matter. Eye wash facilities should be available.

**Hand protection:** Gloves. The protective gloves to be used.

**Respiratory protection:** Special protections are not necessary during the normal conditions of use. IN case of handling large quantities, wear masks with appropriate filters. Particulate respirator if using in a enclosed area. Make sure there is good ventilation.

**Industrial hygiene:** Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with material.

### Environmental exposure

**Control:** Prevent the product from reaching surface water or groundwater. Check the pH and presence of surfactants.

Section. 9 Physical and Chemical Properties	
Physical state	Granules
Colour	Black
Odour	Earthy
pH	6.00 to 7.50
Stability	Stable under normal storage condition
Corrosion	Non corrosive
Flash Point	Not available
Vapor pressure	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Flammability	Not flammable

## Section. 10 Stability and Reactivity

**Stability:** Product is stable under normal conditions of storage.

**Hazardous Polymerization:** Will not occur.

### Hazardous Decomposition

**Products:** Combustion may produce toxic and hazardous fumes (COx and NOx).

**Biodegradability:** Easily bio-degradable

**Incompatibility:** Strong acids, alkali compounds, oxidizing agents, disinfectants, biocides may inactivate active ingredients

**Conditions to Avoid:** Direct Light , Heat, flames, ignition sources and incompatibles.

Excessive temperature variations, below 0°C or above 50 °C.



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## Section. 11 Information on Toxicological Effects

Ascophyllum nodosum, extract (84775-78-0)

**Acute toxicity** : No information is available

**Oral** : No information is available

**Dermal** : No information is available

**Inhalation** : No information is available

**Skin corrosion/irritation** : Non-irritant and for skin

**Serious eye damage** : Non-irritant for eyes

**Respiratory /Skin sensitisation** : No information is available

**Germ cell mutagenicity** : Not mutagenic in Vitro (OECD guideline

471 and 476)

**Carcinogenicity**: No information is available

**Reproductive toxicity** : No information is available

**Repeated dose toxicity** : No information is available

Ascophyllum Nodosum is not classified as a specific target organ toxicant for single or repeated exposure.

Ascorbic Acid (50-81-7)

**Route of entry** : Absorbed through skin, Dermal contact.  
Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** : LD50 3367 mg/kg (Mouse) oral  
LD 50 11900 mg/kg (Rat)  
Myo-inositol (87-89-8)

**Route of entry** : Inhalation. Ingestion.

**Toxicity to Animals** : LD50 10000 mg/kg (Mouse) oral  
LD 50 7000 mg/kg (Rat)

## Section . 12 Ecological Information

The active components of the formulation are bio-degradable in nature except the Bentonite, which persists in the nature and non toxic to aquatic, animals, plants and soil organism.

Accumulation: No information available.

Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential.

No other adverse effects are expected.

## Section. 13 Disposal Consideration

Any disposal practice must be in compliance with all local, national and community laws



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and regulations. Send wastes to disposal (landfill or incinerator) or recycle them. Do not dump in to any sewers , on the ground , or into any body of water.

Do not reuse product packing materials and residues. Dispose the product packing materials and residues according to local state and federal health and environmental regulations. Empty containers can be recycled . Washings from spray equipment can be incorporated in soil in agricultural fields . Never use the empty containers for storing food or water.

## Section. 14 Transport Information

**DOT classification :** Neither a DOT classified controlled material nor classified in accordance with ADR/RID/IMDG/IATA.

## Section. 15 Regulatory Informations

**TSCA 8(b) inventory :** Thiamine mononitrate , Inositol

**OSHA Hazard Classification:** Not applicable

**WHMIS/ Controlled products regulation:** Not applicable.

**Clean Air Act:** This formula does not contain any hazardous air pollutants

**Clean Water Act:** None of the chemicals in this product are listed as hazardous, toxic or priority pollutants.

## Section. 16 Other Information

Created on 23/03/2018

M/s. Pushpa J shah provides the information contained herein in good faith, in compliance with the Occupational Safety and Health Act of 1970,. To the best of our knowledge, the information contained herein is accurate. However M/s. Pushpa J Shah does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

*This product is for agricultural use only.*