

MATERIAL SAFETY DATA SHEET

Furastar MSDS

Section .1 Product and Company Identification

Manufacturer's Name : M/s Pushpa J Shah
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 Product Name : Furastar
 Product Code : NA
 Family/ Group : Plant strengthener /Plant growth promoter
 Chemic Formula : Mixture
 Other designation : Water based formulation al Formula

Section. 2 Composition of Product

Sr No.	Ingredients Name	CAS NO	Composition (%) w/w
1	Folic Acid	59-30-3	2 % Min
2	Active soluble solids containing Ascophyllum Nodosum	84775-78-0	35 % Min
3	Associate preservatives , stabilizer, surfactants and emulsifiers.	NA	3 % Min
4	Water as diluent	7732-15-8	60 % Max

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

Section. 3 Hazard Identification

Emergency Overview

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

Potential Acute Health Effects :

Hazardous in case of skin contact (irritant , permeator), of eye contact (irritant), of inhalation (lung irritant , lung sensitizer).



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Potential Chronic Health Effects :

CARCINOGENIC EFFECTS: Not available; **MUTAGENIC EFFECTS** : Not available

TETRAOGENIC EFFECTS : Not available; **DEVELOPMENTAL TOXICITY** : Not available.

The substance Folic Acid is toxic to lungs , mucuous membranes ,. Repeated or prolonged exposure to the substance can produce target organs damaged.

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.

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 growth promoter and soil conditioner can be salvaged in agricultural fields.

Section. 7 Handling and Storage

Recommendations for: Handle in a well-ventilated place. Wear suitable personal handling protective equipment's (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: Do not eat , drink and smoke in the working areas.

Personal Hygiene Wash hands after handling the substance.

Remove contaminated clothing and protective



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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 plant strengtheners/growth promoter/organic fertilizer / foliar spray 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	Liquid
Colour	Brown
Odour	Earthy
pH	9.00 to 10.00



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Bulk density	1.150 to 1.250 g/mL
Folic Acid content % w/w	2 % Min
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.

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)



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471 and 476)

Carcinogenicity: No information is available

Reproductive toxicity : No information is available

Repeated dose toxicity : No information is available

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

Folic Acid (68514-28-3)

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

Toxicity to Animals : LD50 10000 mg/kg (Mouse)

Chronic Effects on Humans : It is Toxic to lungs , mucuous membrane

Other Toxic effects on Humans : Hazardous in case of skin contact ingestion
inhalation.

Special remarks on Chronic effects on Humans : Passes the placental barrier.

Section. 12 Ecological Information

Totally bio-degradable in nature

Accumulation: No information available.

Do not apply on water bodies as it maybe irritants to aquatic life.

The product contains non –pathogenic, non-hazardous and non-toxic, naturally occurring constituents.

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 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 Information

TSCA 8(b) inventory	:Folic Acid
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 22/03/2018

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.