

Material Safety Data Sheet (FURAGRO)

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1. Product Information

Product Name	Furagro
Product Code	NA
Family / Group	Plant growth promoter/Soil regulator
Chemical Formula	Mixture
Other Designations	Granular Formulation

2. Composition/Information on Ingredients

Components	CAS No.	Composition (%) W/W
Gypsum	13397-24-5	51
Potassium humate	68514-28-3	17
Rock phosphate	1306-05-4	8
Hydrolised protein 75 %	68607-88-5	1
Bentonite	1302-78-9	15
Other	---	8

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

3. Hazards Identification:

3.1 Emergency Overview: The product is a blackish brown granular formulation, nontoxic, non-hazardous, non-inflammable with a characteristic earthy odour which is intended to be used as a plant growth promoter and Soil regulator. There is no specific antidote for any form of irritation observed. Treat symptomatically. Immediately seek medical attention.

3.2 Potential Health Effects: No chronic health effects are known to have occurred from long term exposure to this product.

Routes(s) of Entry	:	Eye, Skin, Oral, Inhalation
Human effects and symptoms of exposure	:	May cause irritation of eyes, skin or respiratory tract
Eye contact	:	May cause irritation
Skin Contact	:	May cause irritation
Chronic ingestion	:	Slightly hazardous in case of ingest

4. First Aid Measures:

The product is non-hazardous non-poisonous. If allergic symptoms are observed on exposure to the product, consult a physician immediately/ visit the nearest hospital / nearest Poison control centre. The concerned examiner should be informed the complete product name and details and amount of exposure. Describe the symptoms and follow the advice given.

Eyes

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

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.

5. Firefighting 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: None

6. Accidental Release Measures:

6.1 For non-emergency personnel: 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.

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

6.3 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 : Sweep up and transfer the material in to labelled containers for transfer to 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.

7. Handling and Storage:

7.1 Precautions for safe handling:

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 plant strengtheners/growth promoter/soil regulator. 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 (CLP Regulation; 1272/2008/EC); therefore, according to Article 14(4) of the REACH regulation and exposure assessment and a risk characterisation are not required.

8. Exposure Controls/ Personal Protection:

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.

Personal Protective Equipment: Supplier

Respiratory protection: Particulate respirator if using in an enclosed area. Make sure there is good ventilation

Eye protection: Approved safety glasses to avoid particulate matter.

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

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

9. Physical and Chemical Properties:

- Physical State : Granules
- Specific Gravity : Not applicable
- Colour : Blackish Brown
- Specification Gravity : Not applicable
- Bulk density : Specified in Certificate of analysis
- Odour : Earthly odour
- Miscibility : Soluble in water
- pH (1% solution) : 6 to 7
- Stability : Stable at normal storage conditions
- Corrosion : Nil
- Flash point : Not applicable
- % Volatile volume : Not determined
- Vapour pressure : Not determined
- Vapour density : Not determined
- Melting point : Not determined
- Boiling point : Not determined
- Evaporation rate : Not determined

10. Stability and Reactivity:

- **Stability:** Product is stable under normal conditions of storage.
- **Hazardous Polymerization:** Will not occur.
- **Hazardous Decomposition Products:** Under normal conditions of storage none.
- **Biodegradability :** Easily bio-degradable
- **Incompatibility:** Strong acids , alkali compounds, oxidizing agents , disinfectants , biocides may inactivate active ingredients
- **Conditions to Avoid:** Heat, flames, ignition sources and incompatibles. Excessive temperature variations, below 0°C or above 40 °C.

11. Toxicological Information:

Acute toxicity

Gypsum (13397-24-5):	No information available
Potassium humate (68514-28-3):	No information available
Rock Phosphate (1306-05-4):	No information available
Hydrolysed Protein 75 % (68607-88-5):	Not tested in Lab.LD 50 > 5g /kg.
Bentonite (1302-78-9):	May cause silicosis on extensive exposure.

12. Ecological Information

- Totally bio-degradable in nature
- Accumulation: Not anticipated to bio accumulate.
- 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.

13. Disposal Considerations

- 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.
- RCRA Waste status: The product is not regulated as a hazardous waste. State and local regulation may affect the disposal of the product.

14. Transportation:

Information:

- Transportation Data : The product is not registered as hazardous material for all transportation.
- Hazard Class : Not applicable
- ID NO : Not applicable

15. Regulatory Information:

TSCA: Not applicable

CERCLA Reportable Quantity: Not applicable

SARA TITLE III Section 313: Not applicable

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.

State Right-to-Know Lists: Not applicable

Exposure Limits: Not applicable

16. Other Information

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.

A Note

1. NIOSH :The National Institute for Occupational Safety and Health
2. WHMS : Workplace Hazardous Materials Information
3. TSCA : Toxic substances Control Act
4. CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
5. SARA : Superfund Amendments and Reauthorization Act
6. RCRA : Resource Conservation and Recovery Act of USA
7. MSDS : Material Safety Data Sheet
8. CPR : Controlled Products Regulation