

## MATERIAL SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

<b>PRODUCT NAME</b>	<b>KATRA NANO CAPSULES FLOWER BOOSTER (NANO BORON 4%)</b>
<b>MANUFACTURED BY</b>	<b>KATRA FERTILIZERS &amp; CHEMICALS PVT.LTD.</b>
<b>FACTORY ADDRESS</b>	Survey No. 90/2/1, Gram Mehrja, Khandwa Road Khargone, Madhya Pradesh, 451001-India
<b>OFFICE ADDRESS</b>	<b>Corp. Office:</b> 1304, Marathon Icon, Nextgen Campus, Opp. Peninsula Corporate Park, Lower Parel (West), Mumbai- 400013 India

### SECTION 2. HAZARDS IDENTIFICATION

The product is a Pink colour powder product with a characteristic odor which is intended to be used as a fertilizer. No hazardous ingredients present, not hazardous to humans, animals or plants. Product and components are not considered hazardous according to EEC Dangerous Substances Directive and Dangerous Preparation Directive.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

S.No.	Ingredient	CAS No.
1	Disodium Octaborate Tetrahydrate	12280-03-4

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

##### General notes:

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation;

Provide fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician in any case.

##### Following skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical advice/attention.

##### Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention.

##### Following ingestion:

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes, Seizures, Gastrointestinal complaints, Vertigo, Vomiting

#### 4.3 Indication of any immediate medical attention and special treatment needed : None

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 : Suitable extinguishing media:

Water, foam, alcohol resistant foam, fire extinguishing powder, coordinate fire-fighting measures to the fire surroundings

**Unsuitable extinguishing media:** none

#### 5.2 : Special hazards arising from the substance or mixture

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Hazardous decomposition products: Section 10.

**Hazardous combustion products:** oxides of boron

### 5.3 Advice for firefighters

Non-combustible. Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (EN 133)

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert.

Remove persons to safety. Ventilate affected area. Control of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

### 6.2 Environmental precautions:

Knock down dust with water spray. Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.

#### Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Removal of dust deposits.

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Preventive skin protection (barrier creams/ointments) is recommended.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Flammability hazards: None

Incompatible substances or mixtures, Store away from other materials. (Reducing agent/ Deoxidizer, Oxidizers, Acids) Protect against external exposure, such as heat, humidity

#### Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

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### Ventilation requirements

Provision of sufficient ventilation

Keep cool. Store in a dry place

### Packaging compatibilities

Keep only in original container.

**7.3 Specific end use(s)** No information available.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

Contains no substances, with occupational exposure limit values

**8.2 Appropriate engineering controls** : Contains no substances with occupational exposure limit values.

### 8.3 Personal Protective Equipment (PPE)

**In case of inhalation:** Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

**In case of eye contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

**In case of Skin contact:** Remove contaminated clothing wash the affected area thoroughly with soap and water. If discomfort persists seek medical attention.

**In case of Ingestion: DO NOT INDUCE VOMITING.** In case of spontaneous vomiting, ensure vomit can drain freely to prevent danger of suffocation. Never give anything by mouth to an unconscious person when conscious, rinse mouth with water. If there is difficulty in breathing give oxygen. If breathing stops or shows signs of failing, apply artificial respiration. Obtain medical attention should symptoms persist.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

S.No.	PHYSICAL TEST	RESULT
1.	Physical appearance	Powder
2.	Colour	White
3.	Odour	Characteristics
4.	Solubility in water	Water soluble

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No Data Available

**10.2 Chemical stability:** The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3 Possibility of hazardous reaction:** Dangerous/dangerous reactions with Reducing agents, Acids.

**10.4 Conditions to Avoid (SDS):** incompatible materials, keep away from heat

**10.5 Incompatible materials:** strong oxidizers

**10.6 Hazardous decomposition products:** Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known, carbon dioxide (CO<sub>2</sub>), carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

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**Acute toxicity**

Shall not be classified as acutely toxic (oral). Shall not be classified as acutely toxic (dermal)  
Shall not be classified as acutely toxic (inhalation)

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin (FIFRA (40 CFR 158, 162 ))

**Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant  
(EPA OPPTS 870.2400, OECD Guideline 405)

**Respiratory or skin sensitization**

Skin sensitization: Shall not be classified as a skin sensitizer. (OECD Guideline 406)

**Respiratory sensitization**

**Classification could not be established because:**

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity:** Shall not be classified as germ cell mutagenic

**Carcinogenicity:** Shall not be classified as carcinogenic. (OECD Guideline 451)

**IARC Monographs:** not listed

**National Toxicology Program (United States) :** not listed **OSHA Carcinogens :**Not listed.

**Reproductive toxicity:** May damage the unborn child. May damage fertility (OECD Guideline 414)

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure)

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure)

**SECTION 12. ECOLOGICAL INFORMATION**

Boron is the element in disodium Octa-borate tetra-hydrate which is used by convention to report borate ecological effects. Boron is naturally occurring and ubiquitous in the environment. Large quantities of Boron released to the environment can lead to plant damage as well as destruction of fresh water life. Product should only be release to the environment as part of a balance plant nutrition program.

**Biodegradation:** Degrades to natural borate. **Photo degradation:** Does not photo-degrade

**Other adverse effects:** Not available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

- Recommendation: Smaller quantities can be disposed of with household waste.
- Uncleaned packaging Recommendation: Dispose of product in accordance with local rules and regulations

**SECTION 14. TRANSPORT INFORMATION**

**UN-Number DOT, IMDG, IATA :** not regulated

**UN proper shipping name DOT, IMDG, IATA :** not regulated

**Transport hazard class(es)DOT, ADN, IMDG, IATA Class :** not regulated

**Packing group DOT, IMDG, IATA :** not regulated **Environmental hazards:** Not applicable.

**Special precautions for user :** Not applicable.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code :** Not applicable.

· **UN "Model Regulation":** not regulated

**Transportation Data** The product is not regarded as hazardous material for all modes of Transportation.

**Hazard Class** Non- hazardous material according to transport regulations. No special precautions are necessary.

**Road and Rail Transport** Not classified as Dangerous Goods for transport by Road and Rail.

**Marine Transport** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; **NON- DANGEROUS GOODS.**

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**Air Transport** Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; non-dangerous goods.

**SECTION 15. REGULATORY INFORMATION**

**SUBSTANCE NAME**

**NANO BORON**

**OTHER INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

• **Sara**

• **Section 355 (extremely hazardous substances):** Substance is not listed.

• **Section 313 (Specific toxic chemical listings):** Substance is not listed.

• **TSCA (Toxic Substances Control Act):** Substance is not listed.

• **Hazardous Air Pollutants :** Substance is not listed.

• **Proposition 65**

• **Chemicals known to cause cancer:** Substance is not listed.

• **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

• **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

• **Chemicals known to cause developmental toxicity:** Substance is not listed.

• **Carcinogenic categories**

• **EPA (Environmental Protection Agency)** Substance is not listed.

• **TLV (Threshold Limit Value)** Substance is not listed.

• **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

• **Chemical safety assessment: A Chemical Safety Assessment has not been carried out**

**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

**State Right-to-Know Lists**

Not applicable

**Exposure Limits**

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. Not classified as dangerous according to EEC Dangerous Substances Directive and Dangerous Preparation Directive.

**SECTION 16. OTHER INFORMATION**

This data sheet completes the technical sheets but does not replace them. The information herein is based on the present state of the manufacturer's knowledge for the concerned product, at the date of publication of this document. It has been given to the best of our belief. The attention of the user is drawn to the possible risks incurred when a product is used for any other purpose than that for which it was intended. It does not in any case exonerate the user from knowing and applying all the regulations governing his activity. He will be only liable for the precautions regarding the use he has made of the product.

**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

**Authorized Signatory**

**Katra Fertilizers & Chemicals Pvt. Ltd.**

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