

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

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

SECTION 2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard classification: Not classified

Hazard symbol: No symbol

Signal word: No signal word.

Hazard statement: Not applicable

Precautionary statement: Not applicable

Other hazards which do not result in GHS classification: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

S.No.	Ingredient	CAS No.
1	L-Ascorbic Acid	50-81-7

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Powerful reducing agent.

Extinguishing Media: Use extinguishing media, most appropriate for the surrounding fire.

Autoignition Temperature: 660 deg C (1,220.00 deg F)

Flash Point: Not available, **Explosion Limits:** Lower: Not available, **Explosion Limits:** Upper: Not available

NFPA Rating: health: 1; flammability: 1; instability: 1;

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer it to properly labelled containers.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

SECTION 7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use with adequate ventilation. Avoid breathing dust.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture. Store protected from light. Store under an inert atmosphere

Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
L-Ascorbic acid	none listed	none listed	none listed

OSHA Vacated PELs: L-Ascorbic acid: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a **NIOSH/MSHA** or **European Standard** EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

S.No.	PHYSICAL TEST	RESULT
1.	Physical appearance	Powder
2.	Odour	Characteristics
3.	Solubility in water	Water soluble
4.	Ascorbic acid (assay)	10 %

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SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable to air when dry; aqueous solutions are rapidly oxidized by air.

Conditions to Avoid: Light, dust generation, excess heat, moist air.

Incompatibilities with Other Materials: Strong oxidizing agents, aluminium, copper, copper alloys, zinc.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization : Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#: CAS# 50-81-7: CI7650000

LD50/LC50:

RTECS:

CAS# 50-81-7: Oral, mouse: LD50 = 3367 mg/kg;

Oral, rat: LD50 = 11900 mg/kg;

Other: Coenzyme for a number of hydroxylation reactions; required for collagen synthesis. Inadequate intake results in deficiency syndromes such as scurvy.

Carcinogenicity: L-Ascorbic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Acute toxicity

Numerical measures of toxicity

No information available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available

Bioaccumulation Inherently biodegradable.

Other adverse effects No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused Products dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT not regulated

TDG not regulated

MEX not regulated

ICAO (air) not regulated

IATA not regulated

IMDG not regulated

RID not regulated

ADR not regulated

ADN not regulated

SECTION 15. REGULATORY INFORMATION

International Inventories

TSCA Not listed

US Federal Regulations

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SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

SECTION 16. OTHER INFORMATION

NFPA

Health hazards 0

Flammability 0

Instability 0

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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