



EF Polymer Private Limited

CIN: U01110RJ2018PTC062566

Safety Data Sheet

Section 1

Product Description

Product Name:	EF Polymer
Recommended Use:	Soil Conditioner / Soil Amendment/ Soil Improver
Synonyms:	Super Absorbent Polymer
Manufacturer:	EF Polymer Private Limited
Contact:	Information is under this document

Section 2

Hazard Identification

Non-Hazardous

Section 3

Composition Information

ENTITY	PERCENTAGE
Organic Matter	60-65
Organic Carbon	35-40
Others (Ca, Mg, N, P, other trace element)	1-5%
<i>Total</i>	<i>100 %</i>

4

First Aid Measures Section

Emergency and First Aid Procedures

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	After contact with skin, wash with water properly.

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Ingestion:

If swallowed, do not induce vomiting; seek medical advice immediately.

Section 5

Firefighting Procedures

Extinguishing Media:

Use dry chemicals, CO₂ or an appropriate foam.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH-approved self-contained breathing apparatus.

Fire and/or Explosion Hazards:

Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling:

Wash thoroughly after handling. Wear protective gear while using as the smell may cause irritation.

Storage:

Keep the container tightly closed in a cool, wellventilated place. Material is hygroscopic (absorbs moisture).

Section 8

Protection Information

Chemical Name

ACGIH
(TWA) (STEL)

OSHA PEL
(TWA) (STEL)



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Hydrogel

N/A

N/A

N/A

N/A

Control Parameters

Engineering Measures:

No exposure limits exist for this product.

Personal Protective Equipment (PPE):

Eye washes

Respiratory Protection:

No respiratory protection is required under normal conditions of use.

Eye Protection:

Wear safety glasses when handling this product.
Have an eye wash station available.

Skin Protection:

Wear long sleeves, protective gloves, and avoid exposing skin when working.

Section 9

Physical Data

Vapor Pressure: NA

Evaporation Rate (BuAc=1): NA

Appearance: Granule/ Powder form

Vapor Density (Air=1): NA

Odor: Tangy

Specific Gravity: 1.11 g/mL

Odor Threshold: No data available

Solubility in Water: Swells in water

pH: 4.5-6.8

Electrical Conductivity: 250-300

Auto ignition Temperature: No data available

Melting Point: 267 °C

Decomposition Temperature: No data available

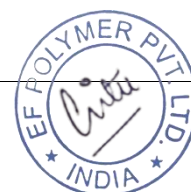
Boiling Point: N/A

Viscosity: N/A

Flash Point: No data available

Percent Volatile by Volume: No data available

Flammable Limits in Air: No data available



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Section 10

Reactivity Data

Reactivity:	Not generally reactive under normal conditions
Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatible Materials:	None known

Section 11

Toxicity Data

Biocompatibility Data

Cytotoxicity:	Pass (Agarose overlay)
Skin Irritation:	Non-Irritant
Eye Irritation	Non-Irritant
Earthworm Toxicity	LC ₅₀ > 2000 mg/kg
Oral Toxicity	LD ₅₀ 5000mg/kg body weight

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	100 %



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No adverse effects on Soil and Plant

Other Adverse Effects:

TDS (%)

2.89

Section 13

Disposal Consideration

Disposal Methods:

Dispose of in accordance with all applicable Federal, State and Local regulations.

Waste Disposal Code(s):

Non-hazardous

Section 14

Transportation Information

Ground - DOT Proper Shipping Name:

Not Regulated

Air - IATA Proper Shipping Name:

Not Regulated

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Section 16

Additional Information

Preparation Date 8 June 2020

Last Revision Date 11 April 2024

Future Revision Date 11 April 2025

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a



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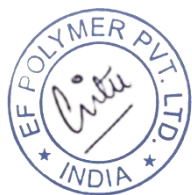
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guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.



Authorized Signature

Ritu Panwar

Product Development Manager

EF Polymer Private Limited

Manufacturer

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Seller

EF Polymer K.K.

Seller address

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Contact (within Japan) support@efpolymer.com | +81 50-3196-8761

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