

1: IDENTIFICATION

Chemical Name	Zinc Oxide	Trade Name	ZYNX® (ZYNX)
Synonyms	Zinc Oxide Suspension 39.5% SC	Molecular Formula	ZnO
Uses	Crop Nutrients		
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Zinc oxide	1314-13-2	40-60 %
ethane-1,2-diol	107-21-1	1-5 %
1,2 benzisothiazolin-3-one	2634-33-5	<0.1 %

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.		
Human Health Hazard:	Acute Tox. 4 (H302)	Skin Irrit. 2 (H315)	
	Eye Dam. 1 (H318)	Skin Sens. 1 (H317)	
Environmental Hazard:	Acute aquatic toxicity Category 1 - (H400) Chronic aquatic toxicity Category 1 - (H410)		

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, treat with artificial respiration and oxygen. Immediately seek medical attention if symptoms are severe or persist

Ingestion: Rinse mouth with water thoroughly and give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention or poison control center immediately and show this container or label.

Skin Contact: In case of contact with product, remove contaminated clothes and wash exposed skin area with plenty of water and soap immediately. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Most Important Symptoms and Effects, Both Acute and Delayed:

Skin contact: May see mild irritation at the site of contact.
 Eye contact: Possible irritation and redness.
 Ingestion: Possible irritation of the throat.
 Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.
 Delayed/Immediate effects: Immediate effects can be expected after short-term exposure

Note to Physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media: No data available

Specific Hazards: Toxic fumes may be released in fire situations

Special Procedures: Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protection of Fire Fighters: Do not breathe a fumes. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Prevent further leakage or spillage if safe to do so. Surface water drains within close vicinity of the spill should be covered. Adsorb spillages sand, clay, acid, binder, universal binder or other absorbent material. Collect and transfer into waste disposal containers. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with mild soap and water before and after handling material. Wear protective equipments to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep product away from children, seeds, fertilizer, foods and animal feeds. Protect from frost, heat and sunlight. Store rooms or warehouses should be made of non-combustible materials with impermeable floors. Store above 5°C.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Always use NIOSH/MSHA approved respiratory Protection equipment with a universal filter type including particle filter.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Liquid	pH: 8.5 - 10.5	Physical State: Liquid	Solubility in Water: Dispersible
Colour: White, Opaque	Specific Gravity: 1.77 - 1.82	Flash Point [°C]: No data available	Odour : Faint

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances. **Conditions to Avoid:** Heat. Extremes of temperature and direct sunlight. Do not freeze

Hazardous Decomp. Products: May emit toxic fumes under fire conditions. **Hazardous Polymerisation:** Does not occur

Materials to Avoid: Strong oxidising agents. and strong acids

Hazardous Reactions: None under normal processing. Decomposition can occur on exposure to heat or moisture.

11: TOXICOLOGICAL INFORMATION

Zinc Oxide:	Rat oral LD50 [mg/kg] : >5000	Dermal (rat) LD50 [mg/kg]: No data available
Ethane-1,2-diol:	Rat oral LD50 [mg/kg] : 4700	Dermal (rat) LD50 [mg/kg]: 10600
1,2 benzisothiazolin-3-one:	Rat oral LD50 [mg/kg] : 1020	Dermal (rat) LD50 [mg/kg]: No data available

Skin corrosion/irritation: Mild Irritant. Serious eye damage/eye irritation: Minimally irritating. Sensitisation: No information available

12: ECOLOGICAL INFORMATION

No data is available for this product

Ethane-1,2-diol: Fish LC50 (96 hrs)[mg/L]: 14 - 18 Daphnia magna EC50(48 hrs) [mg/L]: 46300 Green algae ECr50 (96 hrs)[mg/L]: 6500 - 13000

Bio-accumulation Potential: No information available

Persistence, Degradability and Mobility in soil: No data is available on the product itself

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label or in compliance with government requirements or local regulations. Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in accordance with local regulations.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper Shipping Name:** Environmentally hazardous substance, Liquid, N.O.S (Zinc Oxide)

Land Transport (ADR/RID): Not regulated, Environmental hazard Yes

Sea Transport (IMO/IMDG): Class-9, Packing group-III, Marine Pollutant-Yes, Tunnel code = E , Transport category = 3, EmS F-A, S-F

Air Transport (IATA/ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes, Tunnel code = E, Transport category = 3

15: REGULATORY INFORMATION

Hazard Symbol: GHS09,

H - Statement: H400, H410, H302, H315, H317, H318

EUH208 - May produce an allergic reaction

16: OTHER INFORMATION

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