

1: IDENTIFICATION

Chemical Name	Boron Ethanolamine	Trade Name	BORON ETHANOLAMINE
Synonyms	Boron Ethanolamine -10%	Molecular Formula	C ₂ H ₈ BNO ₃
Uses	Fertilizer, Crop Nutrient		
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

Boron Ethanolamine complex (B ~10%) -10% B equivalent
 Balance: Water + stabilizers

3: HAZARD IDENTIFICATION

Classification of Product (GHS):	Eye irritation, Category 2B Skin irritation, Category 3 (mild)	Hazard Statements:	Causes mild eye and skin irritation Harmful if ingested in large quantities
Signal Word:	Warning		
Precautionary Statements:	Avoid contact with eyes, skin, and clothing Wear protective gloves and goggles Do not ingest		

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 person to fresh air and keep warm and at rest in a position comfortable for breathing. Immediately seek medical attention if symptoms are severe or persist.

Ingestion: Rinse mouth with water thoroughly and give water to drink. Do not induce vomiting unless told to do so by doctor. Never give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Remove and isolate contaminated clothing and shoes. Seek medical attention.

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.

Note to physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, CO₂, dry chemical.

Unsuitable Extinguishing Media: None known

Specific Hazard: Non-flammable but may release irritating fumes if decomposed by heat.

Special Procedures: Do not discharge extinguishing water into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Move containers away from area if it can be done without risk. If possible without risk, remove containers from fire zone, cool with water spray. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. streams. Dike area to prevent water runoff.

Protection of Fire Fighters: Firefighters should wear self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment including suitable protective clothing, gloves and eye or face protection.

Environmental Precaution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods for Cleaning-up: Contain and absorb spill with inert material (sand, soil). Prevent entry into drains or waterways. Dispose of according to local regulations

7: HANDLING & STORAGE

Handling: Ensure good ventilation/exhaustion at the workplace. Do not smoke, drink, or eat during handling. .Wear gloves and goggles during handling. Wash hands and other exposed areas with soap and water before and after handling the product. Good personal hygiene procedures must be practiced.

Storage: Store in dry, cool and well-ventilated area. Keep in original container and tightly closed when not in use. Keep out of reach of children. Do not contaminate water, food or feed by storage or disposal. Protect from direct sunlight and frost.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. No exposure limits are established for mixture.

General Protection: Avoid contact with eyes and skin. 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: Approved NIOSH/MSHA respirator should be used if mist is generated when handling the material.

Skin Protection: Wear suitable protective working clothing including long sleeved shirt, long pants, gloves, shoes and socks to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

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 glasses with side shields or goggles for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9:PHYSICAL/CHEMICAL PROPERTIES

Appearance: Brown liquid

Colour: Brown

Density[g/cm³]: ~1.30 – 1.40

Solubility in Water: Soluble

Odour : Mild, amine-like

Physical State: Liquid

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Incompatible Materials: Strong oxidizers, acids

Hazardous Decomp. Products: Nitrogen oxides, boron oxides.

Reactivity: Non-reactive under normal use

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Low – not acutely toxic at recommended concentrations

Symptoms: Eye/skin irritation, gastrointestinal upset if swallowed.

Routes of Exposure: Eye, skin, ingestion

Chronic Effects: Excessive boron exposure may affect fertility and development (at very high doses).

12: ECOLOGICAL INFORMATION

Soluble boron compounds may be toxic to plants and aquatic life at high concentrations.

Environmental Toxicity: Not classified as environmentally hazardous at agricultural use levels.;

Avoid release to soil and water systems.

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: Empty remaining contents and the rinse containers before disposal thrice. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14: TRANSPORT INFORMATION

UN Classification: Not classified as hazardous. for transport

Labeling: Non-hazardous agricultural product

Transport Hazard Class: None.

Packing Group: Not applicable

15: REGULATORY INFORMATION

Classified as a non-hazardous fertilizer under most regulations.

Subject to agricultural product registration in some countries..

16: OTHER INFORMATION

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