

Micnelf USA Inc.

2020 NW Aloclek Drive
Hillsboro, OR- 97124
503 533 4833

Material Safety Data Sheet

BORACOL BSF 12

Micronutrient mix to correct deficiencies in
vegetable crops

Section I. Chemical Product and Company Identification

Product Name/Trade Name: BORACOL BSF 12
Chemical Name: NA; mixture of essential plant micronutrients
Chemical Family: Metal
Chemical Formula: NA
Uses: Agricultural Use - Fertilizer Ingredient
Distributed By: MICNELF USA INC, 2020 NW Aloclek Dr, Ste # 122, Hillsboro, OR-97124
24 Hour Emergency Telephone: 503-645-9477

Section II. Hazardous Ingredients/ Identity Information

Hazardous Components (Specific Chemical Identity, Common Name)	OSHA PEL	ACGIH TLV	Other Limits Recommended
Micronutrient Mixture Fertilizer	NA	NA	NA
Source and percentage of nutrients			
Magnesium Sulfate (MgSO ₄).....	0.6%		
Borax (Na ₂ B ₄ O ₇ ·10 H ₂ O)	0.8%		
Copper Sulfate (CuSO ₄ ·5H ₂ O).....	1.0%		
Ferrous Sulfate (FeSO ₄ ·7H ₂ O).....	4.0%		
Manganese Sulfate (MnSO ₄ ·H ₂ O).....	1.0%		
Zinc Sulfate (ZnSO ₄ ·7H ₂ O).....	6.0%		

Section III. Physical/ Chemical Characteristics

Physical Appearance: Pale yellow-white Powder	Specific Gravity (H ₂ O = 1) : 1.5
Odor: Odorless	Vapor Density (AIR=1): NA
Solubility in Water: 71%	Vapor Pressure (mm Hg): NA
Boiling Point: NA	Evaporation Rate (Butyl Acetate=1): NA
Freezing Point: NA	

Section IV. Fire and Explosion Data

Flashpoint (C) and Method: NA	Flammable Limits: NA
Explosion Data: NA	LEL: NA UEL: NA
Means of Extinction: CLASS A (CARBON DIOXIDE TYPE)	Special Fire Fighting Procedures: NA

Section V. Reactivity Data

Stability: Stable
Conditions to Avoid: Direct Heat
Incompatibility (Materials to avoid): Alkaline materials
Hazardous Decomposition of byproducts: None

Contract your sales representative or metallurgical specialist to ensure compatibility with system equipment.

Section VI. Health Hazard Data

Eye Contact: Immediately flush eyes with water. Get medical attention if irritation persists.
Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation: Allow to rest in a well ventilated area. Seek medical attention if not feeling well.
Ingestion: May be irritating to the mouth, throat and stomach. May be irritating to the digestive tract and bowels resulting in nausea, vomiting and diarrhea. Induce vomiting. Obtain medical attention if not feeling well.

Section VII. Precautions for Safe Handling and Use

Handling: Do not open containers/bags in areas with strong air draft. In case of a spill use appropriate tools or equipment to place the spilled solid in a suitable container for reuse or disposal. Flush or wash the contaminated surface. Ensure that disposal complies with government requirements and local regulations. Avoid contact with skin and eyes. Do not inhale dust. After handling, always wash hands thoroughly with soap and water. Use local exhaust to keep area well-ventilated.

Storage: Never store in close proximity to sources of heat and moisture. Keep container tightly closed. Store in dry, cool and well-ventilated areas with controlled access. Keep away from food, drink and animal feeds. Keep out of reach of children.

Section VIII. Control Measures

Use local exhaust ventilation, or other similar engineering controls. Under well-controlled conditions, a dust mask made of soft felt is enough to provide protection. However, protective clothing and appropriate respiratory protection must be available in the area in the event of emergency. Wear appropriate respirator when ventilation is inadequate. Where skin and eye contact may occur as a result of brief periodic exposures, wear clothing with long sleeves and coveralls.

(NA = NOT APPLICABLE)

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