



Foliar Fertilizer

H.D. CAMPBELL CO., INC.

MATERIAL SAFETY DATA SHEET



MicroNutrients

Section 1		NAME & PRODUCT	
MANUFACTURER'S NAME H.D. Campbell Company, Inc.		IN CASE OF EMERGENCY TELEPHONE	
STREET ADDRESS 238 North Main Street		For latest data, consult: manufacturer	815-562-8779
CITY, STATE, ZIP CODE Rochelle, IL 61068		Prepared by: Akhtar Khwaja, Ph.D.	Date:
CHEMICAL NAME, TRADE NAME AND SYNONYMS Campbell's GRO-GREEN			
FORMULA OF PRIMARY COMPONENTS (STRUCTURAL)			

12-31-14

Section 2	INGREDIENTS	%	%	%	TLV (units)
1	Ammoniacal Nitrogen			8.0	
	Nitrate Nitrogen			4.0	
	Available Phosphoric Acid (P ₂ O ₅)			31.0	
	Water Soluble Potash (K ₂ O)			14.0	
	Total Sulfur			3.0	
	Secondary plant nutrients: B, Co, Cu, Fe, Mg, Mn, Mo, & Zn			.772	

Section 3	PHYSICAL DATA	
2	BOILING POINT (°F)	None, Decompose @ 300°F
3	VAPOR PRESSURE (mmHg at 20°C)	N/A
4	VAPOR DENSITY (air = 1)	N/A
5	SOLUBILITY IN WATER	47/100
6	SPECIFIC GRAVITY (H ₂ O = 1)	1.81
7	% VOLATILE BY VOLUME	Less Than 1.00
8	COLOR AND ODOR	Green and None
9	PHYSICAL STATE	Powder

Section 4	FIRE AND EXPLOSION HAZARD DATA	
10	FLASH POINT (METHOD USED)	GT 210 °F
11	FLAMMABLE LIMITS STP	L.F.L. U.F.L. Non-flammable
12	EXTINQUISHING MEDIA	<input checked="" type="checkbox"/> WATER FOG <input type="checkbox"/> FOAM <input type="checkbox"/> ALCOHOL FOAM <input type="checkbox"/> CO ₂ <input type="checkbox"/> DRY CHEMICAL <input type="checkbox"/> OTHER
13	SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT	Gas mask or self-contained air pack to protect against oxides of nitrogen that may be produced.

14 UNUSUAL FIRE AND EXPLOSION HAZARDS
Avoid breathing fumes from fire.

Section 5	REACTIVITY DATA	
15	STABILITY	16 CONDITIONS TO AVOID High humidity areas may cause material to firm in package.
17	INCOMPATIBILITY	<input type="checkbox"/> WATER <input type="checkbox"/> ACID <input type="checkbox"/> BASE <input checked="" type="checkbox"/> CORROSIVE* <input type="checkbox"/> OXIDIZING MATERIAL <input type="checkbox"/> OTHER*
18	HAZARDOUS DECOMPOSITION PRODUCTS	N/A

19	HAZARDOUS POLYMERIZATION	20 CONDITIONS TO AVOID
	MAY OCCUR	
	WILL NOT OCCUR	X

21 ORAL INGESTION

~~The~~ ingestion of large quantities can cause nitrate poisoning.

22 EYE CONTACT

Possible abrasion by the solid crystal surface.

23 SKIN CONTACT

Not known to be hazardous, however, prolonged contact may cause redness.

24 SKIN ABSORPTION

Not known to be absorbed through the skin.

25 INHALATION (TLV OR SUGGESTED CONTROL FIGURE)

Possible poisoning (see oral ingestion) / TLV not known.

26 EFFECTS OF OVEREXPOSURE

Acute local, unknown. Acute systemic, ingestion moderate.
Chronic local, unknown. Chronic systemic, ingestion moderate

27 FIRST AID PROCEDURES

Eyes, wash 15 minutes with clean water. Skin, wash with clean water. Inhalation or oral ingestion, send to physician. A physicians attention is recommended after first aid is administered.

Section 7

SPILL OR LEAK PROCEDURES

28 STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up and store in clean plastic bags away from combustibles. If required, flush with clean water. Do not contaminate creeks, rivers or ground water supply.

29 DISPOSAL METHOD

If disposal is required, consult the State Pollution Bureau. Do not dispose of in a manner that will contaminate water supplies.

Section 8

SPECIAL PROTECTION INFORMATION

30 VENTILATION

LOCAL EXHAUST

Recommended

SPECIAL

MECHANICAL (General)

Optional

OTHER

31 RESPIRATORY PROTECTION (Specify Type)

If dust is present use a chemical dust mask.

32 PROTECTIVE CLOTHING

Normal prescribed work clothes for the area are normally sufficient.

33 EYE PROTECTION

NOT NORMALLY NECESSARY

SAFETY GLASSES WITHOUT SIDE SHIELDS

SAFETY GLASSES WITH SIDE SHIELDS

OR

CHEMICAL WORKERS GOGGLES

GAS TIGHT GOGGLES

OR EQUIVALENT

OTHER

34 OTHER PROTECTIVE EQUIPMENT

Eye wash fountain and wash up areas are normally sufficient.

Section 9

SPECIAL PRECAUTIONS OR OTHER COMMENTS

35 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store with combustible materials or in high humidity areas.

36 OTHER PRECAUTIONS

Establish a storage area inspection schedule.