

### 13. DISPOSAL CONSIDERATIONS

<b>WASTE RESIDUE AND CONTAMINATED PACKAGING DISPOSAL</b>	Triple rinse container, add rinsate to spray tank. Refer to manufacturer or supplier for information on container recovery or recycling. Dispose of packaging in a manner consistent with federal, state and local regulations.
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### 14. TRANSPORTATION INFORMATION

<b>US DOT TRANSPORT HAZARD CLASS</b>	Not Available	<b>LABELS &amp; PLACARDS REQUIRED</b>	Not Available
<b>UN NUMBER</b>	Not Available		
<b>PACKING GROUP</b>	Not Available		
<b>MARINE POLLUTANT</b>	Yes (Cobalt Sulfate)		

### 15. REGULATORY INFORMATION

<b>CA PROP. 65</b>	This product does not contain any chemicals known to state of California to cause cancer and birth defects or other reproductive harm.					
<b>TSCA / CAA / CWA / CERCLA</b>	Under U.S. CERCLA not listed.					
<b>SARA TITLE III</b>	This product contains the following toxic chemical material(s) with known CAS numbers subject to reporting requirements established by SARA Title III					
	SARA Section 311/312 Hazard Categories		SARA Section 313, Component		SARA Section 302, section 304	
	Pressure	No	Component	CAS#	302 EHS TPQ	304 EHS RQ
	Reactivity:	No	None	Proprietary	Not Listed	Not Listed
	Immediate (Acute):	Yes				
	Delayed (Chronic):	No				
<b>INTERNATIONAL REGULATIONS</b>	CANADA: WHMIS Not Available.					
	DSL/NDL: Not Listed					

### 16. OTHER INFORMATION

<b>ISSUE DATE</b>	November 23, 2015	Revised: 5/19/2016
<b>SUPERCEDES</b>	All previous versions	



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## BioGro, Inc. SAFETY DATA SHEET NUE Cobalt 3%

### 1. IDENTIFICATION

<b>MANUFACTURER/ OR SUPPLIER'S NAME</b> Bio-Gro, Inc.	<b>TELEPHONE NO./ AFTER HOURS EMERGENCY</b> (509) 894-4110 / (800) 738-7457
<b>MAILING ADDRESS</b> PO Box 326 Mabton WA 98935	<b>MANUFACTURING ADDRESS</b> 681 Glade Rd / Mabton WA 98935
<b>PRODUCT NAME</b> NUE Cobalt 3%	<b>WEBSITE</b> <a href="http://www.BioGro.com">www.BioGro.com</a>
<b>CHEMICAL FAMILY , SYNONYMS AND TRADE NAMES</b> Cobalt Sulfate Solution , Inorganic Cobalts	<b>RECOMMENDED USE OR RESTRICTIONS OF THE CHEMICAL</b> Agricultural Mineral/Fertilizer

### 2. HAZARD(S) IDENTIFICATION

<b>SIGNAL WORD</b> <b>WARNING</b>	<b>HAZARD STATEMENT</b> H315: Cause skin irritation. H319: Causes serious eye irritation.	<b>PRECAUTION STATEMENT</b> Wear protective gloves/protective clothing/eye protection. Do not handle until all safety precautions have been read and understood. Do not taste or swallow.
<b>SYMBOL(S)</b> 		

### 3. MIXTURE COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	BY WEIGHT	HAZARD DATA
Proprietary solution containing plant nutrients derived from Cobalt Sulfate: GUARANTEED ANALYSIS: Cobalt (Co): 3%	Proprietary	100%	See Section 2

### 4. FIRST-AID MEASURES

<b>EYE CONTACT</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists.
<b>SKIN CONTACT</b>	Wash with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice.
<b>INHALATION</b>	Remove person to fresh air and keep comfortable for breathing. Seek medical attention. If not breathing, give artificial respiration if trained to do so.
<b>INGESTION</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

5. FIRE-FIGHTING MEASURES	
<b>EXTINGUISHING MEDIA</b>	Use extinguishing media suitable for surrounding materials to extinguish fire.
<b>HAZARDOUS PRODUCTS OF COMBUSTION</b>	Hazardous products of combustion could include nitrogen oxides.
<b>FIRE FIGHTING PRECAUTIONS</b>	The use of self-contained breathing apparatus (SCBA) and full protective clothing is recommended for fire-fighters for chemical fires. Dike and collect water used to fight fire for later treatment and disposal.
6. ACCIDENTAL RELEASE MEASURES	
<b>PERSONAL PRE-CAUTION</b>	Observe personal protective equipment in Section 8. Keep unnecessary and unprotected personnel from entering.
<b>CONTAINMENT AND CLEANUP</b>	Contain spill with dry earth or sand. Collect spillage and place material in a suitable container for disposal. See Section 13. Do not flush into local waterways, drains, or potable water source.
<b>ENVIRONMENTAL PRECAUTIONS</b>	Large amounts of Boron can be harmful to plants and other species. It should only be used as part of an overall agricultural mineral program that is based on recommendations from soil and tissue analysis.
7. HANDLING AND STORAGE	
<b>HANDLING</b>	Wear personal protective equipment (PPE section 8). Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Do not eat, drink or smoke when using. Wash thoroughly with soap and water after handling. Wash PPE after use with this product.
<b>STORAGE</b>	Store in original packaging. Keep upright. Store out of direct sunlight in a well ventilated area. Do not over-heat. Do not store below freezing. Store away from incompatible materials (see section 10). Maintain air gap. Keep away from children, feed and food products.
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION	
<b>ENGINEERING CONTROLS</b>	Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Practice good industrial hygiene and safety standards. Do not eat, drink or smoke in work areas. Use in accordance with the agricultural worker protection standard, CFR Part 170. Do not apply this product in a way that will contaminate workers or other persons.
<b>EYE/FACE PROTECTION</b>	Wear appropriate protective eyeglasses with side-shield or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
<b>SKIN PROTECTION</b>	Avoid skin contact by wearing chemical resistant gloves, long sleeves and long pants, coveralls, socks, and boots. Wear appropriate clothing to prevent skin exposure. The type of protective equipment used should be equivalent to the concentration of the hazardous material.  Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.
<b>RESPIRATORY PROTECTION</b>	Wear respiratory protection during operations where spraying or misting occurs. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.  Component Exposure Limits: Potassium Hydroxide (1310-58-3) ACGIH:2.00 mg/m3 NIOSH: 2 mg/m3 TLA

9. PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE		ODOR	
SPECIFIC GRAVITY (H <sub>2</sub> O=1)	1.162 Kg/l at 68° F	GALLON WEIGHT	9.7 lbs / gal
pH	2.2-2.5	ODOR THRESHOLD	Not Available
FREEZING POINT	Not Available	EVAPORATION RATE	Not Available
FLASHPOINT	Not Available	VAPOR PRESSURE	Not Available
AUTO-IGNITION TEMP	Not Available	VAPOR DENSITY (AIR = 1)	Not Available
BOILING POINT, 760 MM HG	100°C (212°F)	SOLUBILITY	Not Available
MELTING POINT	Not Available	% VOLATILE	Not Available
FLAMMABILITY LIMITS	Not Available	OCTANOL/WATER PARTITION COEFFICIENT	Not Available
Note: These physical data are typical values of material tested and not intended to be a guaranteed analysis of specification of any specific lot.			
10. STABILITY AND REACTIVITY			
<b>INCOMPATIBLE MATERIALS / STABILITY</b>	Stability: Stable under recommended transport and storage conditions. Incompatibility: None Materials to Avoid: Strong Acids, Metallic Salts, Potassium, Hydroxides.		
<b>HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS</b>	No hazardous reactions known to occur under normal use conditions. No hazardous decomposition products are known to occur.		
<b>CONDITIONS TO AVOID</b>	Unknown. See section 7 for storage information.		
11. TOXICOLOGICAL INFORMATION			
<b>ACUTE TOXICITY VALUES</b>	Acute Oral LD50 (Rat): No Data Available Acute Dermal LD50 (Rabbit): No Data Available Acute Inhalation LC50 (Rat): No Data Available		
<b>ROUTES OF EXPOSURE</b>	Skin and eye contact, inhalation, ingestion.		
<b>SIGNS AND SYMPTOMS OF OVEREXPOSURE</b>	Short term effects: No Data Available	Long term effects: No Data Available	
<b>CHRONIC EFFECTS CARCINOGENICITY</b>	Not considered a carcinogen by IARC, NTP, or OSHA.		
<b>SPECIFIC TARGET ORGAN TOXICITY</b>	Reproductive/developmental toxicity: No Data Available		
12. ECOLOGICAL INFORMATION			
<b>ECOTOXICITY</b>	No data available	<b>MOBILITY IN SOIL</b>	No data available
		<b>BIOACCUMULATIVE POTENTIAL</b>	No data available
<b>PERSTISTANCE &amp; DEGRADABILITY</b>	No data available		