


13. DISPOSAL CONSIDERATIONS

WASTE RESIDUE/CONTAMINATED PACKAGING DISPOSAL	Triple rinse container, add rinsate to spray tank. Do not rinse down drain. 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

US DOT TRANSPORT HAZARD CLASS	Corrosive liquid, acidic, inorganic, n.o.s (Phosphorus Acid, Phosphoric Acid, Nitric Acid)	LABELS & PLACARDS REQUIRED	
PACKING GROUP	III		
UN NUMBER	3264		
MARINE POLLUTANT	Not Available.		

15. REGULATORY INFORMATION

CALIFORNIA PROP. 65	This product does not contain any chemicals known to state of California to cause cancer and birth defects or other reproductive harm.					
TSCA / CAA / CWA / CERCLA	Under U.S. CERCLA not listed.					
SARA TITLE III	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, SARA Section 302, SARA section 304			
	Pressure	No	313 Mixture Component	CAS#	313 RQ	302/304 EHS RQ
	Reactivity:	No	None	Proprietary	Not Listed	Not Listed
	Immediate (Acute):	Yes				
	Delayed (Chronic):	No				
INTERNATIONAL REGULATIONS	CANADA: WHMIS: Not available.					
	DSL/NDSL: The substance is not on any list.					

16. OTHER INFORMATION

ISSUE DATE	December 14, 2015	Revised: 6/30/2016
SUPERCEDES	All previous versions	




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BioGro, Inc. SAFETY DATA SHEET Flourish 4-16-0 MB

1. IDENTIFICATION	
MANUFACTURER/ OR SUPPLIER'S NAME BioGro, Inc.	TELEPHONE NO./ AFTER HOURS EMERGENCY (509) 894-4110 / (800) 738-7457
MAILING ADDRESS 5232 Outlet Drive / Pasco WA 99301	MANUFACTURING ADDRESS 681 Glade Rd / Mabton WA 98935
PRODUCT NAME Flourish 4-16-0 MB	WEBSITE www.BioGro.com
CHEMICAL FAMILY , SYNONYMS AND TRADE NAMES Mineral Solution	RECOMMENDED USE OF THE CHEMICAL Agricultural Fertilizer

2. HAZARD(S) IDENTIFICATION

SIGNAL WORD WARNING	HAZARD STATEMENT H302: Harmful if swallowed. H315: Causes skin irritation. H320: Causes eye irritation.	PRECAUTION STATEMENT Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection. Wash skin thoroughly after handling.
SYMBOL(S) 		

3. MIXTURE COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	BY WEIGHT	INGREDIENT HAZARD DATA
GUARANTEED ANALYSIS: 4-16-0 Proprietary solution containing Nitrogen (N) [nitrate nitrogen] 4%, Phosphate (P2O5) 16%, Calcium (Ca) 4.5%, Boron (B) 0.1%, Copper (Cu) 0.2%, Manganese (Mn) 0.2%, Zinc (Zn) 0.3%. Derived from phosphoric acid, calcium nitrate, boric acid, copper citrate, manganese citrate and zinc citrate.	Proprietary	100%	See Section 2

4. FIRST-AID MEASURES

EYE CONTACT	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention if eye irritation persists.
SKIN CONTACT	Take off contaminated clothing. Wash skin with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice.
INHALATION	Remove person to fresh air and keep comfortable for breathing. Seek medical attention. If not breathing, give artificial respiration if trained to do so.
INGESTION	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	
EXTINGUISHING MEDIA	Use extinguishing media suitable for surrounding materials to extinguish fire. Use foam, dry chemical, carbon dioxide or water spray if suitable for surrounding materials.
HAZARDOUS PRODUCTS OF COMBUSTION	Non-flammable. Non-explosive. Products of combustion could include Potassium Oxides.
FIRE FIGHTING PRECAUTIONS	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	
PERSONAL PRE-CAUTION	Observe personal protective equipment in Section 8. Avoid breathing vapors, mists or gas. Avoid contact with the spilled material.
CONTAINMENT AND CLEANUP	Contain spill with dry earth, sand or suitable material. Collect spillage and place material in a suitable container for disposal. Do not flush residue into local waterways, drains, or potable water source.
ENVIRONMENTAL PRECAUTIONS	Avoid discharge to the environment. Do not apply when weather conditions favor drift or runoff from target areas.
7. HANDLING AND STORAGE	
HANDLING	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.
STORAGE	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	
ENGINEERING/ EXPOSURE CONTROLS	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.
EYE/FACE PROTECTION	Wear appropriate protective chemical safety goggles or face shield as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
SKIN PROTECTION	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.
RESPIRATORY PROTECTION	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.

9. PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE	Brownish liquid	ODOR	Not available
SPECIFIC GRAVITY	1.380 Kg/l at 68°F	GALLON WEIGHT	11.5 lbs/gal
pH	0.0-1.0	ODOR THRESHOLD	Not Available.
FREEZING POINT	Not Available.	EVAPORATION RATE	Not Available.
FLASHPOINT	Not Available.	VAPOR PRESSURE	Not Available.
AUTO-IGNITION POINT	Not Available.	VAPOR DENSITY (Air=1)	Not Available.
BOILING POINT	Not Available.	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			
INCOMPATIBLE MATERIALS / STABILITY	Stability: Stable under recommended normal transport and storage conditions. Incompatible Materials: Unknown.		
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	No hazardous reactions known to occur under normal use conditions. No hazardous decomposition products are known to occur.		
CONDITIONS TO AVOID	None known. See storage information (Sec 7).		
11. TOXICOLOGICAL INFORMATION			
ACUTE TOXICITY VALUES	Acute Oral LD50 (Rat): Mixture: No data available. Acute Dermal LD50 (Rat): Mixture: No data available Acute Inhalation LC50 (Rat): Mixture: No data available		
ROUTES OF EXPOSURE	Skin and eye contact, inhalation, ingestion.		
SIGNS AND SYMPTOMS OF OVEREXPOSURE	Short term effects: May temporarily stain skin, redness of skin, eyes watering profusely.	Long term effects: No data available.	
CHRONIC EFFECTS CARCINOGENICITY	No components are considered a carcinogen by IARC, ACGIH, NTP, or OSHA.		
SPECIFIC TARGET ORGAN TOXICITY	No data available.		
12. ECOLOGICAL INFORMATION			
ECOTOXICITY	No data available.	MOBILITY IN SOIL	No data available.
		BIOACCUMULATIVE POTENTIAL	No data available.
PERSTISTANCE & DEGRADABILITY	No data available.		