SAFETY DATA SHEET

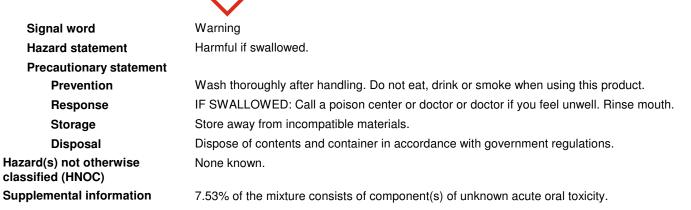


1. Identification

Product identifier	FOLI-GRO CROP MIX		
Other means of identification	None.		
Recommended use	Ag Product - Plant Nutrition		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Wilbur-Ellis Company LLC		
Address	16300 Christensen Rd. Ste 135		
	Tukwila, WA 98188		
	United States		
Telephone	Branded Products Information	(800) 500-1698	
E-mail	SDS@wilburellis.com		
Emergency phone number	Chemtrec - Domestic Chemtrec - International	(800) 424-9300 +1 703-741-5970	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	\wedge	



3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Calcium Nitrate		10124-37-5	10 - < 20
EDTA Acid		60-00-4	5 - < 10
Urea		57-13-6	5 - < 10
Zinc Nitrate		7779-88-6	5 - < 10
Citric Acid		77-92-9	1 - < 3
Other components below r	eportable levels		60 - < 70
Porcontago rangos of compos	vition to protect confidentiality or due to batch variat	ion	

Percentage ranges of composition to protect confidentiality or due to batch variation.

4. First-aid measures

4. First-alu measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if you feel unwell.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

6. Accidental release measures

Fire fighting

equipment/instructions

Specific methods General fire hazards

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.	
	Small Spills: Wipe up with inert absorbent material. Clean surface thoroughly to remove residual contamination.	
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).	

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides			
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
Biological limit values	No biological exposure limits noted for the ingredient(s).		

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Face shield is recommended. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

•	•
Appearance	Green liquid.
Physical state	Liquid.
Form	Liquid.
Color	Green.
Odor	Metallic
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	10.22 lb/gal
Specific gravity	1.22
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of e	exposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.		
Information on toxicological eff	ects		
Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Calcium Nitrate (CAS 10124-37-5	i)		
Acute			
Dermal	_		
LD50	Rat	> 2000 mg/kg, 24 Hours	
Oral	D /		
LD50	Rat	300 - 2000 mg/kg	
Citric Acid (CAS 77-92-9)			
<u>Acute</u>			
Dermal LD50	Rat	> 2000 mg/kg, 24 Hours	
Oral	nat	> 2000 mg/kg, 24 mours	
LD50	Mouse	5400 mg/kg	
EDTA Acid (CAS 60-00-4)	Wouse	5400 mg/ng	
<u>Acute</u>			
Oral			
LD50	Rat	4500 mg/kg	
Urea (CAS 57-13-6)			
Acute			
Oral			
LD50	Mouse	13000 mg/kg	

Zinc Nitrate (CAS 7779-88-6) <u>Acute</u> Dermal

Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
Aerosol		
LC50	Rat	20000 mg.min/m3, 10 Minutes
		2000 mg/m3, 10 Minutes
Oral		
LD50	Mouse	1891 mg/kg

15000 mg/kg

Rat

Components	Species	Test Results
	Rat	1000 mg/kg
* Estimates for product may	be based on additional component	data not shown.
Skin corrosion/irritation	Prolonged skin contact may cau	
Serious eye damage/eye irritation	Direct contact with eyes may ca	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to	cause skin sensitization.
Germ cell mutagenicity	No data available to indicate pro mutagenic or genotoxic.	oduct or any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to	o be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.100 rogram (NTP) Report on Carcinog	
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be ha	rmful.
12. Ecological informatio	n	
Ecotoxicity	The product is not classified as	environmentally hazardous. However, this does not exclude the spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degr	adability of this product.
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects		l effects (e.g. ozone depletion, photochemical ozone creation global warming potential) are expected from this component.
13. Disposal consideratio	ons	
Disposal instructions		n sealed containers at licensed waste disposal site. Dispose of dance with government regulations.
Local disposal regulations	Dispose in accordance with all a	applicable regulations.
Hazardous waste code	The waste code should be assig disposal company.	gned in discussion between the user, the producer and the waste
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
O and a main at a dimension of the	Empty containers chauld be tel	en te en ennueved weste benefiter eite feu verveline ev dienerel

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

DOT BULK

BULK

UN3082 **UN number** Environmentally hazardous substances, liquid, n.o.s. (Zinc Nitrate RQ = 15038 LBS) UN proper shipping name

	Transport hazard class(es)	
	Class	0
		9 9
	Label(s)	
	Packing group	
		Not regulated for transportation when shipped in non-reportable quantities. See RQ. Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	8, 146, 335, IB3, T4, TP1, TP29
	Packaging exceptions	155
	Packaging non bulk	203
	Packaging bulk	241
ΙΑΤΑ		
	UN number	UN3082
	UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Zinc Nitrate)
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	-
	Packing group	
	Environmental hazards	Yes
	ERG Code	9L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
IMD	G	
	UN number	UN3082
	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Nitrate), MARINE POLLUTANT
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	
	Packing group	
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-A, S-F
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Tra	nsport in bulk according to	Not established.
	nex II of MARPOL 73/78 and	
the	IBC Code	

DOT Bulk packaging type; IATA; IMDG



Marine pollutant



IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.						
TSCA Section 12(b) Export I	Notification (40 CFR 707,	Subpt. D)					
Not regulated.							
CERCLA Hazardous Substa	nce List (40 CFR 302.4)						
EDTA Acid (CAS 60-00-4		Listed.					
Zinc Nitrate (CAS 7779-8 SARA 304 Emergency releas	,	Listed.					
Not regulated.	Senotification						
	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)						
	Not regulated.						
Superfund Amendments and Re	authorization Act of 198	6 (SARA)					
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No						
SARA 302 Extremely hazard	SARA 302 Extremely hazardous substance						
Not listed.							
SARA 311/312 Hazardous chemical	No						
SARA 313 (TRI reporting)							
Chemical name		CAS number	% by wt.				
NITRATE COMPOUNDS REPORTABLE ONLY WI SOLUTION) ZINC COMPOUNDS	(WATER DISSOCIABLE; HEN IN AQUEOUS	10124-37-5 7779-88-6	10 - < 20 5 - < 10				
Other federal regulations							
Clean Air Act (CAA) Section	112 Hazardous Air Pollu	itants (HAPs) List					
Not regulated. Clean Air Act (CAA) Section			CFR 68.130)				
Not regulated.							
Safe Drinking Water Act (SDWA)	Not regulated.						
US state regulations							
			pposition 65): This material is	not known to contain			
International Inventories							
Country(s) or region	Inventory name			On inventory (yes/no)			
United States & Puerto Rico	Toxic Substances Contro	ol Act (TSCA) Inven	tory	Yes			
*A "Yes" indicates that all compor A "No" indicates that one or more country(s).	nents of this product comply v	vith the inventory requi	rements administered by the gov	verning country(s)			

16. Other information, including date of preparation or last revision

Issue date			
Revision date			
Version #			
NFPA ratings			

NFPA ratings

02-23-2016 09-26-2017 02 Health: 2 Flammability: 0 Instability: 0



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