# SAFETY DATA SHEET



#### 1. Identification

1. Identification		
Product identifier	FOLI-GRO STACHE	
Other means of identification	None.	
Recommended use	Ag Product - Plant Nutrition	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Wilbur-Ellis Company LLC 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 (800) 424-9300 Chemtrec - International +1 703-741-5970	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet the criteria for classification.	
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	10 - < 20
Citric Acid			3 - < 5
EDTA Acid		60-00-4	3 - < 5
Orthoboric Acid		10043-35-3	1 - < 3
Zinc Oxide		1314-13-2	1 - < 3
Other components below r	eportable levels		70 - < 80

Other components below reportable levels

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

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. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5 Fire-fighting measures		

## 5. Fire-fighting measures

Suitable extinguishing media	Powder. Water spray. Foam. 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.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handlingObserve good industrial hygiene practices. Avoid prolonged exposure.Conditions for safe storage,<br/>including any incompatibilitiesStore in original tightly closed container. Store away from incompatible materials (see Section 10<br/>of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
,		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Val	ues		
Components	Туре	Value	Form
Orthoboric Acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
·	TWA	2 mg/m3	Inhalable fraction.
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
,	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Ch	nemical Hazards		
Components	Туре	Value	Form
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.

Components	Туре	Value	Form
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.
US. Workplace Environme	ental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
iological limit values	No biological exposure limits noted for th	e ingredient(s).	
ppropriate engineering ontrols idividual protection measure	Good general ventilation (typically 10 air should be matched to conditions. If appli or other engineering controls to maintain exposure limits have not been establishe s, such as personal protective equipment	cable, use process enclos airborne levels below reco ed, maintain airborne levels	ures, local exhaust ventilation, ommended exposure limits. If
Eye/face protection	Wear safety glasses with side shields (o		
Skin protection			
Hand protection	Wear appropriate chemical resistant glov supplier.	ves. Suitable gloves can b	e recommended by the glove
Other	Wear suitable protective clothing.		
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clot	hing, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygiene r and before eating, drinking, and/or smok equipment to remove contaminants.		

## 9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
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 expl	losive limits
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)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

## 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	No dangerous reaction known under conditions of normal use.	
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 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	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
EDTA Acid (CAS 60-00-4)		
<u>Acute</u>		
Oral		
LD50	Rat	4500 mg/kg
Orthoboric Acid (CAS 1004	3-35-3)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
Dust		
LC50	Rat	> 2.12 mg/l, 4 Hours
Aerosol		
LC50	Rat	> 2.03 mg/l, 5 Hours
Oral		
LD50	Dog	2000 mg/kg
	Mouse	3450 mg/kg
	Rat	> 2600 mg/kg
Urea (CAS 57-13-6)		
Acute		
Oral		
LD50	Mouse	13000 mg/kg
	Rat	15000 mg/kg

Components	Species	Test Results	
Zinc Oxide (CAS 1314-13-2)			
Acute			
Dermal			
LD50	Rat	> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Mouse	> 5.7 mg/l, 4 Hours	
		2500 mg/m3	
	Rat	> 5700 mg/m3, 4 Hours	
Oral			
LD50	Mouse	> 5000 mg/kg	
	Rat	> 15000 mg/kg	
		> 5000 mg/kg	
* Estimates for product may be	e based on additional component data not shown.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritat	ion.	
Respiratory or skin sensitization	1		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitizat	ion.	
Germ cell mutagenicity	No data available to indicate product or any compon mutagenic or genotoxic.	ents present at greater than 0.1% are	
Carcinogenicity	This product is not considered to be a carcinogen by	/ IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Not regulated.	d Substances (29 CFR 1910.1001-1050) gram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive c	or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally haz possibility that large or frequent spills can have a ha		
Persistence and degradability	No data is available on the degradability of this prod	uct.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone potential, endocrine disruption, global warming potential, endocrine disrup		
13. Disposal consideration	IS		
Disposal instructions	Collect and reclaim or dispose in sealed containers	at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulation	S.	
Hazardous waste code	The waste code should be assigned in discussion be disposal company.	etween the user, the producer and the waste	

Vaste 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).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied. Empty containers should be taken to an approved waste handling sit for recycling or disposal.		
14. Transport information			
оот			
Not regulated as dangerous g	joods.		
ΑΤΑ			
Not regulated as dangerous g	goods.		
Not regulated as dangerous g	joods.		
Fransport in bulk according to Annex II of MARPOL 73/78 and he IBC Code	Not applicable.		
15. Regulatory informatio	n		
JS federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempted from the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Export	Notification (40 CFR 70	7, Subpt. D)	
Not regulated. CERCLA Hazardous Substa	unce List (40 CFR 302.4)		
EDTA Acid (CAS 60-00-4		Listed.	
Zinc Oxide (CAS 1314-1 SARA 304 Emergency relea		Listed.	
Not regulated.			
OSHA Specifically Regulate	d Substances (29 CFR	1910.1001-1050)	
Not regulated.			
Superfund Amendments and Re			
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	)	
SARA 302 Extremely hazard	•		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.
ZINC COMPOUNDS		1314-13-2	1 - < 3
Other federal regulations			
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pol	lutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Relea	ase Prevention (40 C	FR 68.130)
Not regulated.			
Safe Drinking Water Act	Not regulated.		
(SDWA)			

(a))

Orthoboric Acid (CAS 10043-35-3)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

Issue date		
<b>Revision date</b>		
Version #		
NFPA ratings		

**NFPA** ratings

08-30-2016 09-26-2017 03 Health: 0 Flammability: 0 Instability: 0



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