# SAFETY DATA SHEET



# 1. Identification

1. Identification	
Product identifier	TILL-IT Multi-Micro Pack
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 Chemtrec - Domestic (800) 424-9300
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	%
EDTA Acid		60-00-4	20 - < 30
Orthoboric Acid		10043-35-3	10 - < 20
Copper Complex With Ammonia And Ethylene Diamine Tetraacetate		67989-88-2	5 - < 10
Manganese Oxide		1313-13-9	1 - < 3
Zinc Oxide		1314-13-2	1 - < 3
Other components below reportable	levels		50 - < 60

Percentage ranges of composition to protect confidentiality or due to batch variation. This product is a neutralized solution of the ingredients listed above, and other non-hazardous or below reportable threshold ingredients.

# 4. First-aid 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. 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

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.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
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. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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.
	Never return spills to original containers for re-use. 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	

# 7. Handling and storage

Avoid prolonged exposure. Observe good industrial hygiene practices. Precautions for safe handling Store in original tightly closed container. Store away from incompatible materials (see Section 10 Conditions for safe storage, of the SDS). including any incompatibilities

# 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
Manganese Oxide (CAS 1313-13-9)	Ceiling	5 mg/m3	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Respirable fraction.
		5 mg/m3	Fume.
		15 mg/m3	Total dust.

# **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Copper Complex With Ammonia And Ethylene Diamine Tetraacetate (CAS 67989-88-2)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese Oxide (CAS 1313-13-9)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
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 Components		Value	Form
•	Туре		_
Copper Complex With Ammonia And Ethylene Diamine Tetraacetate (CAS 67989-88-2)	TWA	1 mg/m3	Dust and mist.
Manganese Oxide (CAS 1313-13-9)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Dust.
		5 mg/m3	Fume.
logical limit values	No biological exposure limits noted for	r the ingredient(s).	
propriate engineering htrols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establi	oplicable, use process enclosu ain airborne levels below reco	res, local exhaust ventilation mmended exposure limits.
ividual protection measures	, such as personal protective equipm		
Eye/face protection	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, wea	r suitable respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective of	clothing, when necessary.	
neral hygiene nsiderations	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.		
Physical and chemical	properties		
bearance	Blue liquid.		

### 9. ^

Appearance	Blue liquid.
Physical state	Liquid.
Form	Liquid.
Color	Blue.
Odor	Not available.
Odor threshold	Not available.
рН	6.5 - 8.5
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 explosive 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)	Soluble	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	10.30 lb/gal	
Specific gravity	1.24	
10. Stability and reactivity		
Popotivity	The product is stable and non-reactive under normal conditions of use, storage and transport	

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials.
Strong oxidizing agents.
Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

# 11. Toxicological information

# Information on likely routes of exposure

in the second	Apodalo
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

Components	Species	Test Results
Copper Complex With An	nmonia And Ethylene Diamine	Tetraacetate (CAS 67989-88-2)
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours

Components	Species	Test Results
Inhalation		
Aerosol		
LC50	Rat	> 5.32 mg/l, 4 Hours
Oral	_	
LD50	Rat	300 - 2000 mg/kg
EDTA Acid (CAS 60-00-4)		
Acute		
Oral		
LD50	Rat	4500 mg/kg
Orthoboric Acid (CAS 10043-35-	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
Zinc Oxide (CAS 1314-13-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Mouse	> 5.7 mg/l, 4 Hours
		2500 mg/m3
	Pot	
	Rat	> 5700 mg/m3, 4 Hours
Oral	.,	5000 //
LD50	Mouse	> 5000 mg/kg
	Rat	> 15000 mg/kg
		> 5000 mg/kg
* Estimatos for product mov	he based on additional component da	to not shown
Skin corrosion/irritation	be based on additional component da Prolonged skin contact may cause	
Skin corrosion/irritation Serious eye damage/eye	Direct contact with eyes may cause	
irritation	Direct contact with Eyes may cause	s temporary initation.
Respiratory or skin sensitization	on	
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
	Evaluation of Carcinogenicity	
Not listed.	·····	
	ed Substances (29 CFR 1910.1001-1	050)
Not regulated.		
US. National Toxicology P	rogram (NTP) Report on Carcinogen	S
Not listed.		

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 harmful.
12. Ecological information	1

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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).
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.

#### ΙΑΤΑ

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

# Annex II of MARPOL 73/78 and

the IBC Code

General information IMDG Regulated Marine Pollutant.

# 15. Regulatory information

# US federal regulations

All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

# CERCLA Hazardous Substance List (40 CFR 302.4)

Copper Complex With Ammonia And Ethylene Diamine	Listed.
Tetraacetate (CAS 67989-88-2)	
EDTA Acid (CAS 60-00-4)	Listed.
Manganese Oxide (CAS 1313-13-9)	Listed.
Zinc Oxide (CAS 1314-13-2)	Listed.
SARA 304 Emergency release notification	

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

# chemical

### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
COPPER COMPOUNDS (WITH EXCEPTIONS)	67989-88-2	5 - < 10
MANGANESE COMPOUNDS	1313-13-9	1 - < 3
ZINC COMPOUNDS	1314-13-2	1 - < 3

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese Oxide (CAS 1313-13-9)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

### **US state regulations**

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (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.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	02-23-2016
Revision date	09-26-2017
Version #	02
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
NFPA ratings	000
Disclaimer	This information wa

This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Wilbur-Ellis disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.