# SAFETY DATA SHEET



## 1. Identification

Product identifier	TILL-IT CARBO-ZINC		
Other means of identification	None.		
Recommended use	Ag Product - Plant Nutrition		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	Wilbur-Ellis Company LLC		
Address	16300 Christensen Rd. Ste 13	5	
	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	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



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Signal word	Warning
Hazard statement	Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse.
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	%
Zinc Ammonia Complex		67859-51-2	10 - < 20
Citric Acid		77-92-9	3 - < 5
Aqua Ammonia		1336-21-6	1 - < 3

Chemical name	Common name and synonyms	CAS number	%
Proprietary		Proprietary	Proprietary
Other components below report	able levels		70 - < 80
Percentage ranges of composition	to protect confidentiality or due to batch variation	n.	
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms	develop or persist.	
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Ge medical attention. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persist		
ngestion	Rinse mouth. Get medical attention if symptom		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the protect themselves.	e material(s) involved, and	I take precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	n 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 pro	tective clothing must be w	orn 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 consi	der the hazards of other in	volved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peop low areas. Wear appropriate protective equipm damaged containers or spilled material unless adequate ventilation. Local authorities should be contained. For personal protection, see section	ent and clothing during cl wearing appropriate prote be advised if significant sp	ean-up. Do not touch ctive clothing. Ensure
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Cover with plastic sheet to prevent sp and place into containers. Prevent entry into wa Following product recovery, flush area with wat	preading. Absorb in vermic aterways, sewer, basemer	ulite, dry sand or ear
	Small Spills: Wipe up with inert absorbent mate contamination.	erial. Clean surface thorou	ghly to remove reside
	Never return spills to original containers for re-	use. For waste disposal, s	ee section 13 of the
Environmental precautions	Avoid discharge into drains, water courses or c	•	
7. Handling and storage			
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Avo ventilation. Wear appropriate personal protection practices.		
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store of the SDS).	away from incompatible m	aterials (see Section

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Type Components Value PEL Aqua Ammonia (CAS 35 mg/m3 1336-21-6) 50 ppm PEL Proprietary 6 mg/m3 3 ppm US. ACGIH Threshold Limit Values Components Value Type Aqua Ammonia (CAS STEL 35 ppm 1336-21-6) TWA 25 ppm Proprietary STEL 6 ppm TWA 3 ppm US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Aqua Ammonia (CAS STEL 27 mg/m3 1336-21-6) 35 ppm TWA 18 mg/m3 25 ppm Proprietary STEL 15 mg/m3 6 ppm TWA 8 mg/m3 3 ppm No biological exposure limits noted for the ingredient(s). **Biological limit values** Appropriate engineering 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, controls 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. Eye wash facilities and emergency shower must be available when handling this product. Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Skin protection Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing. In case of insufficient ventilation, wear suitable respiratory equipment. **Respiratory protection** Wear appropriate thermal protective clothing, when necessary. **Thermal hazards** Always observe good personal hygiene measures, such as washing after handling the material **General hygiene** considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. 9. Physical and chemical properties Brown liquid. Appearance **Physical state** Liquid. Form Liquid. Color Brown Earthy Odor

Not available.

Not available. Not available.

Not available.

**Odor threshold** 

Melting point/freezing point Initial boiling point and boiling

pН

range

Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	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)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	11.02 lb/gal
Specific gravity	1.32
10 Stability and reactivity	

## 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	Causes skin irritation.
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
nformation on toxicological ef	fects

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
Citric Acid (CAS 77-92-9)		
Acute		
Dermal	Det	
LD50	Rat	> 2000 mg/kg, 24 Hours
<b>Oral</b> LD50	Mouse	5400 mg/kg
Other	Mouse	3400 mg/kg
LD50	Rat	2700 mg/kg
roprietary		<u>_</u> ,,,,,,,, .
Acute		
Dermal		
LD50	Rabbit	2881 mg/kg, 24 Hours
		2.46 - 2.83 ml/kg, 24 Hours
Inhalation		
LC50	Rat	10 - 20 mg/l, 4 Hours
Oral		
LD50	Rat	1515 mg/kg
		1089 mg/kg
		1.19 ml/kg
inc Ammonia Complex (CAS 67	'859-51-2)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
Aerosol	Det	
LC50	Rat	> 5.32 mg/l, 4 Hours
		> 1.15 mg/l, 2 Hours
Oral	Cot	- 2000 mg///g
LD50	Cat	> 2000 mg/kg
	Rat	>= 2000 mg/kg
* Estimates for product may	be based on additional component data not	shown.
kin corrosion/irritation	Causes skin irritation.	
erious eye damage/eye	Causes serious eye irritation.	
ritation		
espiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin	
erm cell mutagenicity	mutagenic or genotoxic.	ny components present at greater than 0.1% are
arcinogenicity	•	cinogen by IARC, ACGIH, NTP, or OSHA.
	Evaluation of Carcinogenicity	
Not listed.	ad Substances (20 CEP 1010 1001-1050)	
Not regulated.	ed Substances (29 CFR 1910.1001-1050)	
	rogram (NTP) Report on Carcinogens	
Not listed.	<b>~</b>	
eproductive toxicity	This product is not expected to cause rep	roductive or developmental effects.
Specific target organ	Not classified.	
toxicity - single exposure		

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	May be harmful if absorbed through skin. Prolonged inhalation may be harmful.
	Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

### 12. Ecological information

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. Dispose of contents and container in accordance with government regulations.
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.

#### IATA

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

### 15. Regulatory information

US federal regulationsAll components are listed on or exempted from the U.S. EPA TSCA Inventory List.This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication<br/>Standard, 29 CFR 1910.1200.<br/>All components are on the U.S. EPA TSCA Inventory List.

Subpt. D)		
Listed.		
Listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		

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

Hazard	categories
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Immediate Hazard - Yes 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.
ZINC COMPOUNDS	67859-51-2	10 - < 20
AMMONIA (INCLUDES ANHYDROUS AMMO		1 - < 3
AQUEOUS AMMONIA FROM WATER DISSO	CIABLE	
AMMONIUM SALTS AND OTHER SOURCES;		
TOTAL AQUEOUS AMMONIA IS REPORTABI	_E	
UNDER THIS LISTING)		

#### Other federal regulations

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

Not regulated.

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 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	Non-Domestic Substances List (NDSL)	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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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: 2 Flammability: 0 Instability: 0

**NFPA** ratings



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