# SAFETY DATA SHEET



# 1. Identification

Product identifier TILL-IT® 6% Manganese EDTA 4-0-5

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 (800) 500-1698

Information

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	%
Tetraammonium Ethylenediaminetetraacetate		22473-78-5	10 - < 20
Manganous Oxide		1344-43-0	5 - < 10
Other components below reports	able levels		70 - < 80

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. This product is a neutralized solution of the ingredients listed above, and other non-hazardous or below reportable threshold ingredients. Available acid and/or base concentration(s) are expected to be below skin and eye corrosion/irritation classification cutoff values.

#### 4. First-aid measures

**Inhalation** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Ingestion

Direct contact with eyes may cause temporary irritation.

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Indication of immediate medical attention and special

treatment needed **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

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

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. 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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

Precautions for safe handling

Avoid prolonged exposure. Use care in handling/storage.

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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Туре	Value	
Manganous Oxide (CAS 1344-43-0)	Ceiling	5 mg/m3	
US. ACGIH Threshold Limit Value Components	s Type	Value	Form
Manganous Oxide (CAS 1344-43-0)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Manganous Oxide (CAS STEL 3 mg/m3 Fume. 1344-43-0)

TWA 1 mg/m3 Fume.

Biological limit values No biological exposure limits noted for the ingredient(s).

**Type** 

Appropriate engineering controls

Components

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.

Value

**Form** 

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 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

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** Clear liquid with a beige color.

Physical stateLiquid.FormLiquid.ColorBeige.

Odor Ammoniacal.
Odor threshold Not available.
pH 6.9 - 7.4

Melting point/freezing point Initial boiling point and boiling

range

Not available. Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density10.62 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

Pounds per gallon 10.62 Specific gravity 1.27

# 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 Not known.

Components Species Test Results

Manganous Oxide (CAS 1344-43-0)

<u>Acute</u>

Inhalation

Dust

LC50 Rat 1 - 5 mg/l, 4 Hours

Oral Dust

LD50 Rat

301 - 1999 mg/kg

Tetraammonium Ethylenediaminetetraacetate (CAS 22473-78-5)

<u>Acute</u>

Oral

LD50 Rat 1913 mg/kg

**Skin corrosion/irritation**Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye**Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**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** Not classifiable as to carcinogenicity to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

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 an aspiration hazard.

Prolonged inhalation may be harmful. **Chronic effects** 

This product has no known adverse effect on human health. **Further information** 

### 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

No data is available on the degradability of any ingredients in the mixture.

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Other adverse effects

Mobility in soil

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

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

disposal.

### 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

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard US federal regulations

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 707, Subpt. D)

Not regulated.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Manganous Oxide (CAS 1344-43-0) Listed.

# SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

categories

Acute toxicity (any route of exposure)

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. MANGANESE COMPOUNDS 1344-43-0 5 - < 10

## Other federal regulations

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

Manganous Oxide (CAS 1344-43-0)

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**

#### **California Proposition 65**

WARNING: California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For

more information go to www.P65Warnings.ca.gov.

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

03-27-2018 Issue date 08-01-2018 **Revision date** 

Version # 03

**NFPA** ratings Health: 1

Flammability: 0 Instability: 0

NFPA ratings



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himself that he has all current data relevant to his particular use.

Material name: TILL-IT® 6% Manganese EDTA 4-0-5