SAFETY DATA SHEET



1. Identification

Product identifier Till-It Blue-Zone 50/50 NS

Other means of identification None.

Recommended use Ag Product - Plant Nutrition

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameWilbur-Ellis Company LLC **Address**Wilbur-Ellis Company LLC

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 hazardsNot classified.Health hazardsNot classified.Environmental hazardsNot classified.OSHA defined hazardsNot 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 | % |
|--|--------------------------|------------|----------|
| Monoammonium Sulfate | | 7783-20-2 | 1 - < 3 |
| Urea | | 57-13-6 | 1 - < 3 |
| Copper Complex With Ammonia And Ethylene Diamine Tetraacetate | | 67989-88-2 | < 1 |
| Orthoboric Acid | | 10043-35-3 | < 0.2 |
| Other components below reportable | e levels | | 90 - 100 |

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

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.

Material name: Till-It Blue-Zone 50/50 NS 4611 Version #: 02 Revision date: 02-06-2018 Issue date: 02-06-2018 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

delaved

media

Indication of immediate medical attention and special Treat symptomatically.

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

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

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

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

equipment/instructions 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. 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. |
| Orthoboric Acid (CAS 10043-35-3) | STEL | 6 mg/m3 | Inhalable fraction. |
| | TWA | 2 mg/m3 | Inhalable fraction. |

Material name: Till-It Blue-Zone 50/50 NS

US. NIOSH: Pocket Guide to Chemical Hazards

ComponentsTypeValueFormCopper Complex WithTWA1 mg/m3Dust and mist.

Ammonia And Ethylene Diamine Tetraacetate (CAS

67989-88-2)

US. Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValueFormUrea (CAS 57-13-6)TWA10 mg/m3Total particulate.

Biological limit valuesNo 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 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 green liquid.

Physical stateLiquid.FormLiquid.ColorGreen.

Odor Not available.
Odor threshold Not available.
pH 6.6 - 7.5

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 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 pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 11.5 Specific gravity 1.38

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

No hazardous decomposition products are known.

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. Direct contact with eyes may cause temporary irritation. **Eve contact**

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

Not known. **Acute toxicity**

Components **Test Results** Species

Copper Complex With Ammonia And Ethylene Diamine Tetraacetate (CAS 67989-88-2)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat 300 - 2000 mg/kg

Monoammonium Sulfate (CAS 7783-20-2)

Acute Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 4250 mg/kg

Orthoboric Acid (CAS 10043-35-3)

Acute 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

Material name: Till-It Blue-Zone 50/50 NS

| Components | Species | Test Results | |
|---------------------------|---|--------------|--|
| Oral | | | |
| LD50 | Dog | 2000 mg/kg | |
| | Mouse | 3450 mg/kg | |
| | Rat | > 2600 mg/kg | |
| Urea (CAS 57-13-6) | | | |
| <u>Acute</u> | | | |
| Oral | | | |
| LD50 | Mouse | 13000 mg/kg | |
| | Rat | 15000 mg/kg | |
| Other | | | |
| LD50 | Mouse | 9200 mg/kg | |
| | Rat | 8200 mg/kg | |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | | |
| Cariava ava damana/ava | Direct contact with eyes may sound tomperary irritation | | |

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

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

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 any ingredients in the mixture.

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. **Disposal instructions**

Dispose in accordance with all applicable regulations. Local disposal 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

15. Regulatory information

US 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 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper Complex With Ammonia And Ethylene Diamine

Tetraacetate (CAS 67989-88-2)

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 No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---------------------------------------|------------|----------|--|
| AMMONIA (INCLUDES ANHYDROUS AMMONIA | 7783-20-2 | 1 - < 3 | |
| AND AQUEOUS AMMONIA FROM WATER | | | |
| DISSOCIABLE AMMONIUM SALTS AND OTHER | | | |
| SOURCES; 10% OF TOTAL AQUEOUS AMMONIA | | | |
| IS REPORTABLE 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

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.

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

Orthoboric Acid (CAS 10043-35-3)

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

Issue date 02-06-2018

Material name: Till-It Blue-Zone 50/50 NS 4611 Version #: 02 Revision date: 02-06-2018 Issue date: 02-06-2018 Revision date 02-06-2018

Version # 02

NFPA ratings Health: 0

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

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.

Material name: Till-It Blue-Zone 50/50 NS