



# Safety Data Sheet

Preparation Date 16-Dec-2015

Revision date 18-Mar-2016

Revision Number: 2

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product Description:** CitruStor

### Other means of identification

**Item#:** 24-019ALT  
**Synonyms** Not Available  
**Registration number(s)** 2792-78

### Recommended use of the chemical and restrictions on use

**Recommended use** Post Harvest Fungicide for citrus. For control of green mold, blue mold and brown rot of citrus fruit.

**Uses advised against** Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

**DECCO**  
Decco U.S. Post Harvest, Inc.  
1713 S. California Ave.  
Monrovia, CA 91016-0120

#### Emergency telephone number

**Company Phone Number** 626-358-1838  
8:00 am - 5:00 pm (PST)  
**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Vapors)

Category 3

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### hazard statements

Toxic if inhaled



**appearance** Opaque

**Physical state** paste

**Odor** No information available

### Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing  
Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards Not Otherwise Classified (HNOC)

##### OTHER INFORMATION

- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life
- May be harmful in contact with skin

### 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Thiabendazole	148-79-8	22.8	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

#### FIRST AID MEASURES

<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

#### Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and Effects** No information available.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

**Notes to physician** No information available.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Carbon monoxide. Oxides of nitrogen.

**Explosion data****Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid contact with the skin and the eyes. Use personal protective equipment. Provide adequate ventilation. Wash thoroughly after handling.

**Environmental Precautions****Environmental precautions**

Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Methods and material for containment and cleaning up****Methods for Clean-Up**

Shovel or sweep up. Pick up and transfer to properly labelled containers.

## 7. Handling and Storage

**Precautions for safe handling****Handling**

Avoid contact with skin and eyes. Avoid breathing dust. Keep out of reach of children. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep in a well-ventilated place. In case of insufficient ventilation, wear suitable respiratory equipment.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep tightly closed in a dry and cool place. Keep out of the reach of children.

**incompatible materials**

No materials to be especially mentioned.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering controls**

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal protective equipment****Eye/Face Protection**

Avoid contact with eyes. If splashes are likely to occur, wear: Eye/Face Protection.

**Skin protection**

Wear protective gloves/clothing.

**Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	paste	<b>Odor</b>	No information available
<b>appearance</b>	Opaque		
<b>color</b>	white		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Evaporation Rate</b>	No information available	
<b>flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	
<b>Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.03	
<b>Water solubility</b>	No information available	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**OTHER INFORMATION**

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC Content</b>	No information available
<b>density</b>	No information available
<b>Bulk density</b>	8.61 lb/gal

## 10. Stability and Reactivity

**Reactivity**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Keep away from children.

**incompatible materials**

No materials to be especially mentioned.

**Hazardous decomposition products**

Nitrogen oxides (NOx). Carbon monoxide.

## 11. Toxicological Information

**Information on Likely Routes of Exposure****Product information**

CitruStor  
 Acute oral LD50 = >5000 mg/kg  
 Acute dermal LD50 = >5000 mg/kg  
 Acute inhalation LC50 = >2.08 mg/L  
 Moderate eye irritation  
 Mild skin irritation  
 Not a sensitizer

**Inhalation** There is no data available for this product.

**Eye contact** There is no data available for this product.

**Skin contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

**Component Information**

Thiabendazole:  
 Human experience from oral use as a medicinal drug for parasites indicates that it may cause stomach upset, dizziness, drowsiness, nausea, vomiting and fever. Following repeated oral exposure, effects such as suppression of weight gain and kidney damage were observed in rats. Marked depression of weight gain and urinary hyperplasia with notable increase in tumors were observed following long-term oral administration in the drinking water of rats. No adverse effects were observed in long-term oral studies with dogs. Administration in the drinking water and feed of mice, rats and rabbits during pregnancy caused birth defects and other adverse effects on the offspring at doses that were also maternally toxic. Some developmental effects( mainly decreased fetal weight) were observed at doses that were not maternally toxic. No effects were seen on the ability of male or female rats to reproduce when exposed orally for two successive generations. No genetic changes were observed in tests using bacteria, but were observed in tests using animals.

**Information on Toxicological Effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**sensitization** No information available.  
**Mutagenic effects** No information available.  
**Carcinogenicity** There are no known carcinogenic chemicals in this product.  
**Reproductive effects** Not Available.  
**STOT - Single Exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - Product information**

**LD50 Oral** > 5000 mg/kg  
**LD50 Dermal** > 5000 mg/kg  
**LC50 Inhalation:** > 2.08 mg/l

**12. Ecological Information****ecotoxicity**

Thiabendazole:  
 Highly toxic to Daphnia magna = 96 hr EC50 0.45 mg/L  
 Slightly toxic to Herpacticoid = 96 hr LC50 24 mg/L

**Persistence/Degradability**

No information available.

**Bioaccumulation/ Accumulation**

No information available.

**Other Adverse Effects**

No information available

### 13. Disposal Considerations

**Waste Treatment Methods****Waste Disposal Method**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water. Dispose of contents/container in accordance with local regulation.

**Contaminated packaging**

Refer to product label.

### 14. Transport Information

**DOT**

Particle size of the mist is not reasonably foreseeable to be encountered by a human during transport. Therefore as noted in 49 CFR 173.132(b)(3) this material is not regulated for transportation purposes  
NOT REGULATED

**IATA**

NOT REGULATED

**IMDG/IMO**

NOT REGULATED

### 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**signal word**

CAUTION

**Keep out of Reach of Children. Causes moderate eye irritation.****International Inventories****USINV**

Not determined

**DSL/NDSL**

Not determined

**EINECS/**

Does not comply

<b>ELINCS</b>	
<b>ENCS</b>	Does not comply
<b>China</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply
<b>TSCA</b>	Does not comply

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECS** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Thiabendazole - 148-79-8	1.0

#### SARA 311/312 Hazardous

##### Categorization

Acute health hazard	yes
Chronic health hazard	NO
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CERCLA

SARA Product RQ 0

#### RCRA

#### Pesticide Information

#### State Regulations

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Thiabendazole		X			

#### International regulations

##### U.S. EPA Label information

EPA Pesticide registration number 2792-78

### 16. Other Information

**NFPA** HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 16-Dec-2015

Revision date 18-Mar-2016

#### Revision Summary

Update section 14

#### Disclaimer

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks associated with the use of this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Decco US Post-Harvest, Inc. harmless from any claims relating to such factors.

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