



Safety Data Sheet

Preparation Date 19-May-2015

Revision date 20-Oct-2015

Revision Number: 2

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

Product identifier

Product Description: DECCO SALT NO. 19

Other means of identification

Item#: 24-019
Synonyms Not Available
Registration number(s) 2792-50

Recommended use of the chemical and restrictions on use

Recommended use Fungicide.
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 - Oral	Category 4
Acute toxicity - Dermal	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

hazard statements

HARMFUL IF SWALLOWED
Harmful in contact with skin



appearance Off-white

Physical state powder

Odor odorless

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection

IF ON SKIN: Wash with plenty of soap and water
 Call a POISON CENTER or doctor if you feel unwell
 Wash contaminated clothing before reuse
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Thiabendazole	148-79-8	99.5	

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

Eye contact	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.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
Inhalation	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.
Ingestion	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 Use personal protective equipment. Avoid contact with the skin and the eyes.

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. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal. Shovel or sweep up.

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: Safety glasses with side-shields.

Skin protection

Long sleeved clothing. Long pants. Chemical resistant footwear plus socks. Chemical resistant gloves.

Respiratory protection

Mixers & loaders:

A NIOSH approved dust mist filtering respirator with MSA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter.

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

Physical state appearance color	powder Off-white No information available	Odor	odorless																																																																		
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Property</u></th> <th style="text-align: left;"><u>VALUES</u></th> <th style="text-align: left;"><u>Remarks/ • Method</u></th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>No information available</td> <td></td> </tr> <tr> <td>Melting point/freezing point</td> <td>305 °C / 581 °F</td> <td></td> </tr> <tr> <td>Boiling Point/Range</td> <td>No information available</td> <td></td> </tr> <tr> <td>Flash Point</td> <td>No information available</td> <td></td> </tr> <tr> <td>Evaporation Rate</td> <td>No information available</td> <td></td> </tr> <tr> <td>flammability (solid, gas)</td> <td>No information available</td> <td></td> </tr> <tr> <td>Flammability limit in air</td> <td></td> <td></td> </tr> <tr> <td> Upper Flammability Limit</td> <td>No information available</td> <td></td> </tr> <tr> <td> Lower Flammability Limit</td> <td>No information available</td> <td></td> </tr> <tr> <td>vapor pressure</td> <td>No information available</td> <td></td> </tr> <tr> <td>Vapor Density</td> <td>No information available</td> <td></td> </tr> <tr> <td>Specific gravity</td> <td>No information available</td> <td></td> </tr> <tr> <td>Water solubility</td> <td>No information available</td> <td></td> </tr> <tr> <td>Solubility in Other Solvents</td> <td>No information available</td> <td></td> </tr> <tr> <td>Partition coefficient: n-octanol/water</td> <td>No information available</td> <td></td> </tr> <tr> <td>Autoignition temperature</td> <td>No information available</td> <td></td> </tr> <tr> <td>decomposition temperature</td> <td>No information available</td> <td></td> </tr> <tr> <td>Viscosity, kinematic</td> <td>No information available</td> <td></td> </tr> <tr> <td>Dynamic viscosity</td> <td>No information available</td> <td></td> </tr> <tr> <td>Explosive properties</td> <td>No information available</td> <td></td> </tr> <tr> <td>Oxidizing properties</td> <td>No information available</td> <td></td> </tr> </tbody> </table>				<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>	pH	No information available		Melting point/freezing point	305 °C / 581 °F		Boiling Point/Range	No information available		Flash Point	No information available		Evaporation Rate	No information available		flammability (solid, gas)	No information available		Flammability limit in air			Upper Flammability Limit	No information available		Lower Flammability Limit	No information available		vapor pressure	No information available		Vapor Density	No information available		Specific gravity	No information available		Water solubility	No information available		Solubility in Other Solvents	No information available		Partition coefficient: n-octanol/water	No information available		Autoignition temperature	No information available		decomposition temperature	No information available		Viscosity, kinematic	No information available		Dynamic viscosity	No information available		Explosive properties	No information available		Oxidizing properties	No information available	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>																																																																			
pH	No information available																																																																				
Melting point/freezing point	305 °C / 581 °F																																																																				
Boiling Point/Range	No information available																																																																				
Flash Point	No information available																																																																				
Evaporation Rate	No information available																																																																				
flammability (solid, gas)	No information available																																																																				
Flammability limit in air																																																																					
Upper Flammability Limit	No information available																																																																				
Lower Flammability Limit	No information available																																																																				
vapor pressure	No information available																																																																				
Vapor Density	No information available																																																																				
Specific gravity	No information available																																																																				
Water solubility	No information available																																																																				
Solubility in Other Solvents	No information available																																																																				
Partition coefficient: n-octanol/water	No information available																																																																				
Autoignition temperature	No information available																																																																				
decomposition temperature	No information available																																																																				
Viscosity, kinematic	No information available																																																																				
Dynamic viscosity	No information available																																																																				
Explosive properties	No information available																																																																				
Oxidizing properties	No information available																																																																				

OTHER INFORMATION

Softening point molecular weight VOC Content density Bulk density	No information available No information available No information available No information available No information available
--	--

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. Avoid dust formation.

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

Decco Salt No. 19
 Oral LD50 (rat) = EPA Category III 500-5000 mg/kg
 Dermal LD50 (rabbit) = EPA Category III 2000- 20000 mg/kg

Inhalation	No known hazard by inhalation.
Eye contact	May cause slight irritation.
Skin contact	May cause irritation.
Ingestion	MAY BE HARMFUL IF SWALLOWED.
Component Information	<p>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.</p>

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	> 500 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rat)

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 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 WARNING!

Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Keep out of Reach of Children. May be fatal if inhaled. Causes moderate eye irritation.

International Inventories

USINV	Not determined
DSL/NDL	Not determined
EINECS/ ELINCS	Complies
ENCS	Complies
China	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TSCA	Complies

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 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 2792-50

16. Other Information

NFPA HEALTH 1 flammability 0 Instability 0 Physical hazard -

Preparation Date 19-May-2015

Revision date 20-Oct-2015

Revision Summary

Update section 8

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.

To the extent consistent with applicable law, Decco US Post-Harvest Inc. makes no warranties or merchantability or of fitness for a particular purpose nor any other express or implied warranty except as stated on this MSDS.

To the extent consistent with applicable law, Decco US Post-Harvest Inc. shall not be liable for any incidental, consequential, indirect, or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF DECCO US POST-HARVEST, INC. FOR ANY AND ALL CLAIMS, LOSSES, INJURIES, OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF DECCO POST-HARVEST, INC. THE REPLACEMENT OF THE PRODUCT.

Decco US Post-Harvest, Inc., offers this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of Decco US Post-Harvest, Inc.

End of MSDS