# **METLOCK**<sup>TM</sup> **CT** Fungicide



# Safety Data Sheet - GHS

#### 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME:** METLOCK<sup>TM</sup> CT Fungicide

**EPA REGISTRATION NUMBER:** 59639-191 **VC NUMBER(S):** 1895 **PRODUCT DESCRIPTION:** Fungicide

METLOCK is a trademark of Valent U.S.A. LLC

#### MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. LLC P.O. Box 5075 4600 Norris Canyon Road San Ramon, CA 94583

#### **EMERGENCY TELEPHONE NUMBERS**

HEALTH EMERGENCY OR SPILL (24 hr): (800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC (800) 424-9300 or (202) 483-7616

#### PRODUCT INFORMATION

AGRICULTURAL PRODUCTS: (800) 682-5368

The current SDS is available through our website (www.valent.com), or by calling the product information numbers listed above.

#### 2. HAZARDS IDENTIFICATION

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA-required classifications on the product label. Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide. Please see Section 15, REGULATORY INFORMATION for an explanation.

Classification - (per U.S. OSHA 29 CFR 1910.1200 (Hazcom 2012))

Acute toxicity - Oral	Category 4
Skin Sensitization	Category 1
Reproductive toxicity	Category 2

#### Label elements

**EMERGENCY OVERVIEW** 

#### **WARNING**



#### **Hazard statements**

Harmful if swallowed
May be harmful in contact with skin
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child

#### Precautionary statements

#### Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required.
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

#### Response

IF EXPOSED OR CONCERNED: Get medical advice/attention

Eyes None. Skin None. Inhalation None.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

FIRE None.
Spill None.

#### Storage

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

### Other Information

- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

93.24 % of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements, see Section 14.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	TRADE SECRET
Metconazole	125116-23-6	2.25	
Metalaxyl	57837-19-1	4.51	
Other ingredients	Various CAS#s	93.24	*

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

4.	FIRST	AID	MEASU	JRES
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#### **EMERGENCY NUMBER (800) 892-0099**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

#### **EYE CONTACT:**

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

#### SKIN CONTACT:

Wash with soap and water. Remove and wash contaminated clothing separately.

#### INGESTION:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

#### INHALATION:

Seek fresh air.

#### **NOTES TO PHYSICIAN:**

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

#### FIRE FIGHTING MEASURES

Flash point °C

Flash point °F >200 °F **FLASH POINT METHOD:** Not applicable **AUTOIGNITION:** No data available

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical

FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

**NFPA RATING:** 

Health: 1 Flammability: 1 Reactivity: 0 Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials such as: carbon dioxide, hydrogen chloride (HCI), oxides of sulfur, oxides of nitrogen, carbon monoxide (CO), various hydrocarbons, etc.

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### 6. ACCIDENTAL RELEASE MEASURES

# VALENT EMERGENCY PHONE NUMBER: (800) 892-0099 CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300 OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

UN/NA NUMBER: Not applicable EMERGENCY RESPONSE GUIDEBOOK NO.: Not applicable

#### FOR SPILLS ON LAND:

**CONTAINMENT:** Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

#### FOR SPILLS IN WATER:

**CONTAINMENT:** This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release on to soil or into surface water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

#### 7. HANDLING AND STORAGE

#### END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

#### **HANDLING:**

Keep pesticide in original container. Do not contaminate food or feed. Do not put into food or drink containers. Do not dilute in food or drink containers.

Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Keep container tightly closed. Stable at normal temperatures and storage conditions in closed original package.

#### STORAGE:

Do not reuse empty container. Open dumping is prohibited. Store in a cool, dry place, out of direct sunlight. Do not store at temperatures below 32°F. If the product is exposed to temperatures below 32°F, thaw at room temperature to 50°F or warmer and shake gently to unify the product. To close package, replace and tighten cap to form an airtight seal.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Formulators, mixers, loaders, applicators and other handlers should refer to the product label before use for detailed information on personal protective equipmet (PPE).

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. If ventilation is not adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

SKIN & HAND PROTECTION: Do not get on skin or clothing. Skin contact should be minimized by wearing protective clothing including coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear and chemical-resistant gloves. Remove contaminated clothing. Wash hands before breaks and at the end of work.

#### **EXPOSURE LIMITS**

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Metconazole	None	None	None
Metalaxyl	None	None	None
Other ingredients	Inhalable particles: 10 mg/m³ Respirable particles: 3 mg/m³	None	None

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

Translucent **Appearance** Odor Slightly Sweet

Colorless No information available Color **Odor threshold** 

**PROPERTIES** Values Remarks • Method

8.67 @ 26° C Ha

Melting point/freezing point No information available

Boiling point/boiling range No information available No information available >200 °F Flash point

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air

**Upper flammability limits** Not applicable Lower flammability limit Not applicable

No information available Vapor pressure Vapor density No information available No information available **Specific Gravity** Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available

**Decomposition temperature** No information available **Viscosity** 84.1 cP @ 20° C; 29.9 cP @ 40°

No information available **Explosive properties Oxidizing properties** No information available **Liquid Density** 1.03 a/cm3 @ 20° C **Bulk density** No information available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

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No data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

#### Incompatible materials

None known based on information supplied.

#### **Hazardous Decomposition Products**

May form toxic materials such as:. Carbon dioxide (CO2), Hydrogen chloride, oxides of sulfur, oxides of nitrogen,, Carbon monoxide (CO), various hydrocarbons,. etc.

### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Oral Toxicity LD 50 (rats)	5000 mg/kg	EPA Tox Category	Ш
Dermal Toxicity LD 50 (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC 50 (rats)	> 2.06 mg/L (4-hour)	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	Ш
Skin Irritation (rabbits)	Minimally irritating	EPA Tox Category	IV

Skin Sensitization (guinea pigs) Non-sensitizer **EPA Tox Category** Not applicable

#### **CARCINOGEN CLASSIFICATION**

Chemical name	IARC Group 1 or 2	OSHA - Select Carcinogens	NTP Carcinogen List
Metalaxyl	Not listed	Not listed	Not listed
Metconazole	Not listed	Not listed	Not listed
Other ingredients	Not listed	Not Listed	Not listed

#### TOXICITY OF METCONAZOLE TECHNICAL

SUBCHRONIC: Subchronic (28 to 90 days) studies of Metconazole Fungicide Technical in rodents and dogs reported decreased body weights, fatty vacuolation and hypertrophy of the liver, reduced RBC parameters, increased serum liver enzyme levels, and increased spleen and liver weights. The lowest no-observable-effect level (NOEL) was 2.5 mg/kg/day.

CHRONIC/CARCINOGENICITY: In a one-year dog study, Metconazole Fungicide Technical produced effects on liver histopathology, increase serum liver enzymes and bleeding/irritation in the gastrointestinal tract. The NOEL was 11.1 mg/kg/day. In a 2-year study in rats, Metconazole Fungicide Technical produced histological changes in the liver, kidney and adrenal and possibly leukemia. The NOEL for this study was 4.8 mg/kg/day. In an 18-month mouse study, increased white blood cell count, increased serum liver enzymes increased liver weights, histopathological changes in the liver, spleen and adrenal and increased liver adenomas and adenocarcinomas were observed at doses of 167 mg/kg/d or higher. The NOEL in mice was 4.8 mg/kg/day. The mechanism of liver tumor formation in mice is believed to be not relevant to humans.

**DEVELOPMENTAL TOXICITY:** Maternal and fetal effects were observed in rats and rabbits treated with Metconazole Fungicide Technical during gestation. The NOELs in rats and rabbits are 16 and 20 mg/kg/day, respectively.

**REPRODUCTION:** Metconazole Fungicide Technical was tested in a 2-generation rat reproduction study. At

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maternally toxic doses effects were noted on estrus cycling, litter size, gestation length and pup body weight. The NOEL was 10.6 mg/kg/day.

**MUTAGENICITY:** Not considered a genotoxic hazard. Negative in gene mutation assays *in vitro*, in *in-vivo/in-vitro* UDS assays, and in *in-vivo* micronucleus assays in mice. Positive in an *in-vitro* chromosome aberration assay in the presence of S-9, but not observed in the *in-vivo* assay.

#### TOXICITY OF METALAXYL TECHNICAL

**SUBCHRONIC:** Repeated overexposure to metaxyl may affect the liver.

**CHRONIC/CARCINOGENICITY:** Prolonged overexposure to metalaxyl may affect liver and blood. Metalaxyl did not cause cancer in laboratory animals. The U.S. EPA has given metalaxyl a Class E classification (evidence of non-carcinogenicity for humans).

**DEVELOPMENTAL TOXICITY:** For metalaxyl: Maternal and Fetal toxicity were observed at higher doses in rats. Maternal and fetal NOAELs were 50 mg/kg/day. In rabbits, maternal body weight was decreased with a NOAEL of 150 mg/kg/day. No treatment-related fetal toxicity was observed at doses up to 1000 mg/kg/day

**REPRODUCTION:** In animal studies, metalaxyl did not interfere with reproduction at doses up to 63 mg/kg/day.

MUTAGENICITY: No mutagenic effect was found in various tests with microorganisms and mammals with metalaxyl.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

#### 12. ECOLOGICAL INFORMATION

**AVIAN TOXICITY:** The following are results of tests with Metconazole Fungicide Technical:

Bird (quail, duck) NOAEL: 60 mg/kg

Test results for Metconazole technical on avian species include:

Oral LD<sub>50</sub> bobwhite quail: 875 mg/kg Dietary LC<sub>50</sub> bobwhite quail: 1,057 mg/kg

Dietary LC<sub>50</sub> mallard duck: > 5,200 mg/kg The following are results of tests with

Metalaxyl Technical:

Based upon EPA designation, Metalaxyl Technical is practically non-toxic to birds.

Test results include:

Dietary LC 50 bobwhite quail: > 10,000 mg/l Dietary LC 50 mallard duck: 1,466 mg/kg

**AQUATIC ORGANISM TOXICITY:** Based upon EPA designation, Metconazole Fungicide Technical is moderately toxic to fish and freshwater invertebrates and highly toxic to marine invertebrates. Test results include:

> LC<sub>50</sub> (96 hr) Sheepshead Minnow: 6.3 mg/L LC<sub>50</sub> (96 hr) Rainbow Trout: 2.2 mg/L LC<sub>50</sub> (96 hr) Fathead Minnow: 3.9 mg/L LC<sub>50</sub> (48 hr) Daphnia magna: 4.2 mg/L LC<sub>50</sub> (96 hr) Mysid Shrimp: 0.75 mg/L

EC<sub>50</sub> (96 hr) Oyster Shell Deposition: 2.3 mg/L

EbC<sub>50</sub> (72 hr) Green Algae: 1.7 mg/L ErC<sub>50</sub> (96 hr) Blue-green Algae: > 13 mg/L EC<sub>50</sub> (96 hr) Fresh Water Diatom: 0.0098 mg/L

EC<sub>50</sub> (96 hr) Marine Diatom: 1.7 mg/L EbC<sub>50</sub> (7 day) Duckweed: 0.051 mg/L

Based upon EPA designation, Metalaxyl Technical is practically non-toxic to fish, estuarine species and aquatic plants. Test results include:

LC 50 (96 hr) Rainbow Trout: 139 mg/L LC 50 (48 hr) Daphnia magna: 29 mg/L LC 50 (96 hr) Bluegill: 139 mg/L

#### **OTHER NON-TARGET ORGANISM TOXICITY:**

The contact LD50 (96 hr) of Metconazole Fungicide Technical to the honeybee is >90 µg/bee. Not hazardous to arthropods (honey bee, etc.) or earthworms. Metconazole Fungicide Technical has a photodegradation half-life in water of 144 - 190 days and a soil photodegradation half-life of 65 days (for light-dark cycle: 12 hours).

Metalaxyl is practically non-toxic to small animals and honey bees. In soils, metalaxyl is moderately stable under normal environmental conditions. The primary routes of dissipation in surface soil are aerobic soil metabolism from microbial degradation and uptake by plants. Hydrolysis, photolysis and volatilization are not significant routes of breakdown. Metalaxyl is very water soluble and variably binds to organic materials in the soils. In the aquatic environment, metalaxyl degrades moderately under both aerobic and anaerobic conditions by the microbial degradation.

#### OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to birds, mammals, fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

#### 13. **DISPOSAL CONSIDERATIONS**

#### END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles promptly after emptying. Then, offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of the smoke.

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

#### 14. TRANSPORTATION INFORMATION

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by U.S. DOT

**EMERGENCY RESPONSE** 

GUIDEBOOK NO.: Not applicable

ICAO/IATA SHIPPING NAME: UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Metconazole), 9,

III, Marine Pollutant

**REMARKS:** •Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from

Dangerous Goods regulations -- see UN Special Provision 375. •For U.S. shipping, Emergency Response Guidebook No. 171.

IMDG SHIPPING NAME: UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Metconazole), 9,

III, Marine Pollutant

EMS NO.: F-A, S-F

#### 15. REGULATORY INFORMATION

#### EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:

Pesticide products in the U.S. are registered by the EPA under FIFRA and are subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

#### **EPA FIFRA SIGNAL WORD: CAUTION**

- · Causes moderate eye irritation
- · Avoid contact with eyes or clothing
- · Keep out of reach of children.

**PESTICIDE REGULATIONS:** All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**U.S. FEDERAL REGULATIONS:** Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

SARA (311, 312):

Immediate Health: Yes Chronic Health: Nο Fire: Nο Sudden Pressure: No Reactivity: No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

#### 16. OTHER INFORMATION

Updated Manufacturer/Distributor Address and General Review. **REASON FOR ISSUE:** 

SDS NO.: 0436 **EPA REGISTRATION NUMBER:** 59639-191

**REVISION NUMBER:** 2

**REVISION DATE:** 09/09/2020 SUPERCEDES DATE: 03/16/2015

**RESPONSIBLE PERSON(S):** Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent U.S.A. LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent U.S.A. LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent U.S.A. LLC to confirm that you have the most current product label and SDS.

This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label.

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