



## Safety Data Sheet - GHS

### 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME:** Quash® SC Fungicide  
**EPA REGISTRATION NUMBER:** 59639-227  
**VC NUMBER(S):** VC-2024 (and may include others of similar ingredients and concentrations)  
**PRODUCT DESCRIPTION:** Fungicide

Quash® is a registered 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

### 2. HAZARDS IDENTIFICATION

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

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Reproductive toxicity	Category 2

#### Label elements

Signal Word

**WARNING**



#### Hazard statements

Harmful if swallowed.  
 Harmful if inhaled.  
 Suspected of damaging fertility or the unborn child.

#### Precautionary statements

##### Prevention

Wash hands and face thoroughly after handling.  
 Do not eat, drink, or smoke when using this product.

Avoid breathing mist/spray.  
 Use only outdoors or in a well-ventilated area.  
 Obtain, read, and follow all safety instructions before use.  
 Wear protective gloves/protective clothing/eye protection.

**Response**

IF EXPOSED OR CONCERNED: Get medical advice.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF SWALLOWED: Get medical help. Rinse mouth.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified (HNOC)**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Metconazole	125116-23-6	42.5
Other Ingredients	Various CAS#s	57.5

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 MEASURES

**EMERGENCY NUMBER (800) 892-0099****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. 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 a poison control center or doctor for treatment advice.

**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:**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:**

None

### 5. FIRE FIGHTING MEASURES

**Flash point °C** No data available  
**Flash point °F** No data available  
**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical

**FIRE FIGHTING INSTRUCTIONS:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Prevent extinguishing media run off from entering drains, sewers, and bodies of water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Possible generation of hydrochloric acid, hydrogen cyanide, carbon monoxide and oxides of nitrogen.

**6. ACCIDENTAL RELEASE MEASURES**

**VALENT EMERGENCY PHONE NUMBER: (800) 892-0099**  
**CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300**

**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.

**7. HANDLING AND STORAGE**

**HANDLING:**

The usual precautions for handling chemicals should be observed. For personal protection see Section 8. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wear protective clothing and equipment when handling this product. Goggles or protective eyewear, gloves, long-sleeved shirt, long pants, socks and shoes are appropriate. Remove contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

**STORAGE:**

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, away from heat, flame and strong acids. Not for use or storage in or around the home. Keep container closed when not in use.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS**

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Other Exposure Limits
Octamethylcyclotetrasiloxane	None	None	10 PPM (US WEEL)
Propylene glycol	None	None	10 mg/m3 (USWEEL)
Sodium hydroxide	2 mg/m3	None	None
Smectite clay	TWA 10 mg/m3 total dust; 3mg/m3 respirable dust	TWA 15 mg/m3 total dust; 5mg/m3 respirable dust	None

**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:** Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including long pants, long-sleeved shirt and shoes plus socks, and chemical-resistant gloves. Remove contaminated clothing. Wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Milky white	<b>Vapor pressure</b>	Not determined
<b>Physical State</b>	Liquid	<b>Vapor density</b>	Not determined
<b>Color</b>	White	<b>Specific Gravity</b>	Not determined
<b>Odor</b>	Rancid nutty odor	<b>Water solubility</b>	Not determined
<b>pH</b>	6.5 (1% w/v)	<b>Solubility in other solvents</b>	Not determined
<b>Melting point / freezing point</b>	Not determined	<b>Partition coefficient</b>	Not determined
<b>Boiling point / boiling range</b>	Not determined	<b>Autoignition temperature</b>	Not determined
<b>Flash point</b>	Not determined	<b>Decomposition temperature</b>	Not determined
<b>Evaporation rate</b>	Not determined	<b>Viscosity</b>	120 cP @ 20 °C 90 cP @ 40 °C
<b>Flammability (solid, gas)</b>	Not determined	<b>Explosive properties</b>	Not determined
<b>Flammability Limits in Air:</b>		<b>Oxidizing properties</b>	Not determined
<b>Upper flammability limits</b>	Not Applicable	<b>Liquid Density</b>	1.13 g/cm <sup>3</sup> @ 20C
<b>Lower flammability limits</b>	Not Applicable	<b>Bulk density</b>	Not determined

## 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

Extremes of temperature and direct sunlight.

### Incompatible materials

Oxidizing agents and acids.

### Hazardous Decomposition Products

May emit toxic and corrosive fumes under fire conditions: hydrogen chloride (HCl), hydrogen cyanide (HCN), carbon monoxide (CO) and nitrous oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### **ACUTE TOXICITY:**

Oral Toxicity LD <sub>50</sub> (rats)	1030 mg/kg	EPA Tox Category	III
Dermal Toxicity LD <sub>50</sub> (rabbits)	> 5,000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC <sub>50</sub> (rats)	> 2.08 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Minimally irritating; resolved by 48 hrs.	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating; resolved by 72 hrs.	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Not a sensitizer	EPA Tox Category	Not applicable

**CARCINOGEN CLASSIFICATION**

Chemical name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
None	None	None	None

**TOXICITY OF ACTIVE INGREDIENT**

**REPRODUCTION:** Rat: NOAEL (Parental) 8.49(male), 12.9(female) mg/kg bw/day. NOAEL (offspring) 9.05(male), 12.7(female) mg/kg bw/day. Lowest NOAEL 8 mg/kg bw/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.

**12. ECOLOGICAL INFORMATION**

Data based on technical material.

**AVIAN TOXICITY:** Metconazole Fungicide Technical is practically non-toxic to Mallard Ducks and slightly toxic to Bobwhite Quail. Test results 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

**AQUATIC ORGANISM TOXICITY:** 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> (48 hr) Daphnia magna: 4.2 mg/L  
 ErC<sub>50</sub> (96 hr) Blue-green Algae: > 13 mg/L

**OTHER NON-TARGET ORGANISM TOXICITY:** The oral LD<sub>50</sub> of Metconazole Fungicide Technical to the honeybee is > 95.3 µg/bee. The contact LD<sub>50</sub> is (96 hr) is >88 µg/bee.

**OTHER ENVIRONMENTAL INFORMATION:**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. See Directions for Use on product label for additional precautions and restrictions. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas.

**13. DISPOSAL CONSIDERATIONS**

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 SHIPPING NAME:** Not regulated for domestic ground transport by US DOT or Canada TDG.  
**EMERGENCY RESPONSE**

<b>ICAO/IATA SHIPPING NAME:</b>	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Metconazole), 9, III, Marine Pollutant
<b>REMARKS:</b>	Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IATA Special Provision A197.
<b>IMDG SHIPPING NAME:</b>	UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Metconazole), 9, III, Marine Pollutant
<b>REMARKS:</b>	Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7

## 15. REGULATORY INFORMATION

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

- *Harmful if swallowed.*
- *Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.*
- *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:	Yes
Fire:	No
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.

#### New Jersey Right-To-Know

Propylene glycol	CAS# 57-55-6
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#### Pennsylvania Right-To-Know

Propylene glycol	CAS# 57-55-6
Dimethyl siloxane, trimethylsiloxy-terminated	CAS# 63148-62-9
Benzoic acid	CAS# 65-85-0
Sodium hydroxide	CAS# 1310-73-2
Oxydipropanol	CAS# 25265-71-8
1,2-Benzisothiazol-3(2H)-one	CAS# 2634-33-5

**Massachusetts Right-To-Know**

Sodium hydroxide

CAS# 1310-73-2

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** General Update  
**SDS NO.:** 0519  
**EPA REGISTRATION NUMBER:** 59639-227  
**REVISION NUMBER:** 3  
**REVISION DATE:** 03/15/2021  
**SUPERCEDES DATE:** 10/30/2019  
**RESPONSIBLE PERSON(S):** Valent U.S.A. LLC, Corporate EH&S

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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