SECTION 1: Identification

1.1. Identification
Product form: Mixture
Trade name: GardenTech Daconil Fungicide Concentrate
Synonyms: EPA Reg. No.: 67572-82-71004, 100536524, 100537320

1.2. Recommended use and restrictions on use
Recommended use: Fungicide.
Restrictions on use: Keep out of reach of children. Avoid contact with eyes, skin or clothing. Avoid inhalation of vapors or fumes. Do NOT take internally.

1.3. Supplier
TechPac, LLC.
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339 - United States

General Product Information: 1-866-945-5033 - Monday - Friday 8am - 5pm CST
www.gardentech.com

1.4. Emergency telephone number
Emergency number: 1-800-420-9347 (Medical emergencies, human or animal)
1-800-424-9300 – CHEMTREC (Transportation related emergencies)
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS US classification
Acute toxicity (inhalation) Category 2: Fatal if inhaled
Serious eye damage/eye irritation Category 1: Causes serious eye damage
Skin sensitization, Category 1: May cause an allergic skin reaction
Carcinogenicity Category 2: Suspected of causing cancer
Specific target organ toxicity (single exposure) Category 3: May cause respiratory irritation

2.2. GHS Label elements, including precautionary statements
GHS US labeling
Hazard pictograms (GHS US):
- GHS05
- GHS06
- GHS07
- GHS08

Signal word (GHS US): Danger
Hazard statements (GHS US):
- May cause an allergic skin reaction
- Causes serious eye damage
- Fatal if inhaled
- May cause respiratory irritation
- Suspected of causing cancer

Precautionary statements (GHS US):
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.
- In case of inadequate ventilation wear respiratory protection.
- If on skin: Wash with plenty of water.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If exposed or concerned: Get medical advice/attention.
GardenTech Daconil Fungicide Concentrate
Safety Data Sheet

Immediately call a poison center or doctor.
Call a poison center or doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification:
This product is toxic to aquatic invertebrates and wildlife. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorothalonil</td>
<td>(CAS-No.) 1897-45-6</td>
<td>29.6</td>
</tr>
<tr>
<td>Non-hazardous and/or does not meet criteria for classification</td>
<td>(CAS-No.) N/A</td>
<td>Balance</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation
Fatal if inhaled. Causes respiratory irritation if inhaled at non-lethal doses.

Symptoms/effects after skin contact
May cause an allergic reaction in individuals with a sensitivity to chlorothalonil.

Symptoms/effects after eye contact
Causes serious eye damage.

Chronic symptoms
Suspected of causing cancer.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media
Use extinguishing agent suitable for surrounding fire.

Unsuitable extinguishing media
Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions
Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray. Do not allow fire fighting water to escape into waterways or sewers. Evacuate area. Keep unauthorized personnel away. Stay upwind.

Protection during firefighting
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area. Do not touch or walk on the spilled product. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing vapors or fumes. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment.
Emergency procedures: Stop leak if safe to do so. Stay upwind. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Use appropriate PPE.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing fumes. Handle and open container with care. Read label before use.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Appropriate engineering controls
Appropriate engineering controls: Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment
Hand protection: Wear protective gloves

Eye protection: Safety glasses

Skin and body protection: If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Respiratory protection: In case of insufficient ventilation, use NIOSH approved respiratory protection.
## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Tan liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Tan</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6 – 8</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>5.7 \times 10^{-7} \text{ mmHg @ 77° F (25 °C)} (Chlorothalonil)</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.17</td>
</tr>
<tr>
<td>Solubility</td>
<td>0.81 mg/l @ 77 °F (25 °C) (Chlorothalonil)</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Pow)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**9.2. Other information**

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. May decompose upon heating to produce toxic vapors which may include oxides of carbon and nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Compound</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>GardenTech Daconil Fungicide Concentrate</td>
<td>0.34 mg/l/4h</td>
</tr>
<tr>
<td>ATE (Dust/Mist)</td>
<td></td>
</tr>
<tr>
<td>Chlorothalonil (1897-45-6)</td>
<td></td>
</tr>
<tr>
<td>Listed on IARC (International Agency for Research on Cancer)</td>
<td>2B - Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>
### GHS-US Properties

<table>
<thead>
<tr>
<th>Classification</th>
<th>GHS-US Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Fatal if inhaled.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

### Potential health effects

#### Inhalation

**Acute**
- May cause respiratory tract irritation.

#### Skin

**Acute**
- Prolonged or frequent repeated skin exposure may cause allergic reactions some individuals. Prolonged contact may cause mild irritation.

#### Eye

**Acute**
- Causes serious eye damage.

#### Ingestion

**Acute**
- Under normal conditions of use, no health effects are expected.

#### Mutagenicity

- Chlorothalonil was negative in the Ames assay and the micronucleus test in mice bone marrow.

#### Carcinogenicity

- Chlorothalonil is classified as a 2B carcinogen by IARC.

#### Reproductive Effects

- Chlorothalonil did not cause teratogenic effects in rabbits or rats in oral studies.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Chlorothalonil (1897-45-6)</th>
<th>LC50 Acute fish 1</th>
<th>0.04 mg/l (Exposure time: 96 h, Trout)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50 Acute fish 2</td>
<td>0.06 mg/l (Exposure time: 96 h, Bluegill)</td>
</tr>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>0.068 mg/l (Exposure time: 48 h, Daphnia magna)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

- Chlorothalonil is not persistent in soil or water.

#### 12.3. Bioaccumulative potential

- Chlorothalonil has a low to moderate bioaccumulation potential.

#### 12.4. Mobility in soil

- Chlorothalonil has low mobility in soil

#### 12.5. Other adverse effects

- This product is toxic to aquatic invertebrates and wildlife.
SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN number</th>
<th>Proper Shipping Name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN3082</td>
<td>Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Chlorothalonil)</td>
<td>9</td>
<td>III</td>
<td>Marine pollutant</td>
</tr>
<tr>
<td>IATA</td>
<td>UN3082</td>
<td>Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Chlorothalonil)</td>
<td>9</td>
<td>III</td>
<td>Acute aquatic toxicity</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

15.1. US Federal regulations

Chlorothalonil (1897-45-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
SARA Section 313 - Emission Reporting 1 %

FIFRA Labelling

EPA Registration Number 67572-82-71004
This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Signal word  Warning
FIFRA Precautionary Statement KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals
Causes substantial but temporary eye irritation. Causes skin irritation. Harmful if inhaled, swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Wear goggles or face shield, coveralls over a short-sleeve shirt and pants, and rubber gloves when mixing and applying this product. Note to User: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash in exposed skin areas. Persons having an allergic reaction should contact a physician.

FIFRA First Aid
IF IN EYES: 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. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. IF INHALED: 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. IF SWALLOWED: Immediately call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
FIFRA Environmental Hazards

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. This chemical can contaminate surface water through spray drift. Under some conditions it may also have high potential for runoff into surface water for several days to weeks after application; these include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infiel canal or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips and areas overlaying tile draining systems that drain to surface water.

15.2. US State regulations

Chlorothalonil (1897-45-6)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>41 µg/day</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Date of issue : 11 September 2014
Revision date : 06 August 2020

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.