GardenTech Daconil Fungicide Concentrate

Safety Data Sheet

Issue date: 09/11/2014 Revision date: 08/03/2026 Supersedes: 08/06/2020 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : GardenTech Daconil Fungicide Concentrate

Synonyms : 100536524,100537320, UPC #: 6-13499-02105-2, EPA Reg. No.: 67572-82-71004

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. Do NOT take internally. Do not breathe vapors, mist, spray.

1.3. Supplier

TechPac, LLC.
303 South Grand Street
Greenfield, MO 65661 - 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, Respiratory tract irritation	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 vapors, spray, mist.
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, and hearing protection.
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.
Immediately call a poison center or doctor.

If skin irritation or rash occurs: Get medical advice or attention.
Take off immediately all contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product is toxic to aquatic invertebrates and wildlife. Under United States Regulations (29 CFR 1910.1200 - HCS 2024), this product is 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

Name	Product identifier	%
Chlorothalonil	(CAS-No.) 1897-45-6	29.6
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

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 dust. 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. Do not breathe vapor, spray, mist. Do NOT wash away into sewer. Avoid release to the environment.

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. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store in cool, dry, secure place. Keep out of reach of children. Avoid extreme temperatures. Store locked up.
Incompatible materials	:	Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits (OSHA PELs, ACGIH TLVs, or other recommended limits) have been established for the components of this product.

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:

Coveralls, over long-sleeved shirt and long pants

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

Physical state	:	Liquid
Appearance	:	Tan liquid
Color	:	Tan
Odor	:	Odorless
Odor threshold	:	No data available
pH	:	6 – 8

Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability	:	Non-flammable
Vapor pressure	:	5.7 x 10(-7) mmHg @ 77° F (25 °C) (Chlorothalonil)
Relative vapor density at 20°C	:	No data available
Relative density	:	1.17
Solubility	:	0.81 mg/l @ 77 °F (25 °C) (Chlorothalonil)
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	Not applicable
Particle characteristics	:	No data available

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

GardenTech Daconil Fungicide Concentrate	
ATE (Dust/Mist)	0.34 mg/l/4h

Chlorothalonil (1897-45-6)	
Listed on IARC (International Agency for Research on Cancer)	
IARC group	2B - Possibly carcinogenic to humans

GHS-US Properties	**Classification**
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Fatal if inhaled.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified

Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

Acute : Fatal if inhaled. Causes respiratory irritation if inhaled at non-lethal doses.

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

Chlorothalonil (1897-45-6)	
LC50 Acute fish 1	0.04 mg/l (Exposure time: 96 h, Trout)
LC50 Acute fish 2	0.06 mg/l (Exposure time: 96 h, Bluegill)
EC50 - Crustacea [1]	0.068 mg/l (Exposure time: 48 h, Daphnia magna)

12.2. Persistence and degradability

Chlorothalonil (1897-45-6)	
Persistence and degradability	Chlorothalonil is not persistent in soil or water.

12.3. Bioaccumulative potential

Chlorothalonil (1897-45-6)	
Partition coefficient n-octanol/water (Log Pow)	3.05
Bioaccumulative potential	Chlorothalonil has a low to moderate bioaccumulation potential.

12.4. Mobility in soil

Chlorothalonil (1897-45-6)	
Mobility in soil	Chlorothalonil has low mobility in soil

12.5. Other adverse effects

GardenTech Daconil Fungicide Concentrate	
Ecological Fate	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

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable

IMDG	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Chlorothalonil)	9	III	Marine pollutant
IATA	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Chlorothanlonil)	9	III	Acute aquatic toxicity

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 %

EPA 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 Hazard statements	**Warning**
FIFRA Precautionary statements	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 advise. 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 infield canals 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)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	41 µg/day

SECTION 16: Other information

Issue date	:	11 September 2014
Revision date	:	03 August 2026
Supersedes	:	06 August 2020

Indication of changes:
SDS reviewed - minor revisions made. SDS aligned with HCS 2024.

SDS US (GHS HazCom 2024) - CGP

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