# SAFETY DATA SHEET

Revision date 11-Oct-2022



Revision Number 1

1. Identification		
Product identifier		
Product Name	CHLOROTHALONIL 82.5DF SELECT	
Other means of identification		
Product Code(s)	89442-6	
UN/ID no	3077	
Synonyms	None	
Registration Number(s)	89442-6	
Recommended use of the chemical and restrictions on use		
Recommended use	Fungicide	
Restrictions on use	Follow label instructions	
Details of the supplier of the safety data sheet		

Company Address

PrimeSource, A Division of Albaugh LLC. 1525 NE 36th St Ankeny, IA 50211 USA

## Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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

# 2. Hazard(s) identification

# **Classification**

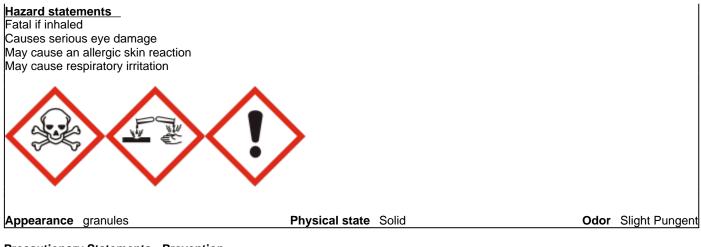
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

# Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

Danger



# **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Contaminated work clothing must not be allowed out of the workplace Wear protective gloves/eye protection/face protection

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 IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

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

# 3. Composition/information on ingredients

#### Substance

Not applicable.

# Mixture

Chemical name	CAS No	Weight-%	Active Ingredient
Chlorothalonil	1897-45-6	80.03-84.98	
Other Ingredients	PROPRIETARY	>10.00	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First-aid measures

## Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.
Eye contact	Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.
Most important symptoms and eff	ects, both acute and delayed
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.
Indication of any immediate medic	al attention and special treatment needed
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting	measures
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Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. Accidental release measures

# Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containme	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.
	ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

# Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
	Keep out of the reach of children.

# 8. Exposure controls/personal protection

## Control parameters

**Exposure Limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

# **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

# Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not breathe dust. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

Information on basic physical and of Physical state Appearance Color Odor	<u>chemical properties</u> Solid granules light brown Slight Pungent	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	8.5 - 9.5	
pH (as aqueous solution)		
Melting point / freezing point	-5 °C (23.00 °F) °C / °F	
Boiling point / boiling range	100 °C (212.00 °F) °C / °F	
Flash point	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	5.72 x 10 (-7) torr @25°C	
Vapor density	No data available	
Relative density	No data available	
Water solubility	Dispersible in water 0.6-0.9%	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature		
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Other information		
Explosive properties	No information available	
	No information available	
Oxidizing properties Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	0.857 g m/L*	
	d does not necessarily represent that of a spi	ecific hatch

\*Listed density is an approximate value and does not necessarily represent that of a specific batch

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Excessive heat.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# Information on likely routes of exposure

## **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness. Itching. Rashes. Hives.

# Acute toxicity

#### Numerical measures of toxicity

Oral LD50 Dermal LD50 Inhalation LC50 Component Information	5,050 mg/kg > 2,020 mg/kg > 0.051 mg/L		
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorothalonil 1897-45-6	> 10000 mg/kg (Rat)	> 10 g/kg (Rabbit)	= 0.1 mg/L (Rat)4 h

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available.

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Causes burns. Risk of serious damage to eyes.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Chlorothalonil	-	Group 2B	-	Х
1897-45-6				

#### Legend

# IARC (International Agency for Research on Cancer)

Group 2B\*: Not carcinogenic in rats or mice. Listed as Category 2B by the International Agency for Research on Cancer (IARC) but expert opinion based on weight of evidence is that classification as a carcinogen is not warranted. Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

# Reproductive toxicity

No information available.

STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

# 12. Ecological information

# Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Chlorothalonil 1897-45-6	EC50: =0.0068mg/L (72h, Pseudokirchneriella	LC50: =0.012mg/L (96h, Oncorhynchus mykiss) LC50: =0.0076mg/L (96h, Oncorhynchus mykiss) LC50: 0.0221 - 0.032mg/L (96h, Lepomis macrochirus) LC50: 0.045 - 0.057mg/L (96h, Lepomis macrochirus)		EC50: 0.0342 - 0.143mg/L (48h, Daphnia magna)

# Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

#### **Component Information**

Chemical name	Partition coefficient
Chlorothalonil	2.9
1897-45-6	

Other adverse effects

No information available.

# 13. Disposal considerations

Disposa	I methods	

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# 14. Transport information

<u>DOT</u>	Not regulated
UN/ID no	3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9
Packing group	III
ΙΑΤΑ	Not regulated

# 15. Regulatory information

U.S. EPA Label Information

#### EPA Pesticide Registration Number 89442-6

**EPA Pesticide Label** WARNING May be fatal if inhaled. Causes substantial, but temporary eye injury. Harmful if absorbed through skin.

#### International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AIIC	Does not comply

Legend:

**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 Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

#### US Federal Regulations

## <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Chlorothalonil - 1897-45-6	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical name		New Jersey		Massachusetts			Pennsylvania	
Chlorothalonil		X		-			Х	
1897-	45-6							
16. Other information								
		hazards 4	Flammability		Instability 0	de O	Special hazards	
HMIS Chronic Hazard Sta		hazards 4 * *= Chronic H	Flammability lealth Hazard	/ 0	Physical hazar	<b>as</b> 0	Personal protection X	
		and acronyms u		ety data	<u>sheet</u>			
Legend Section	A TWA (time-weighted average)				STEL STEL (Short Term Exposure Limit)			
Ceiling	Maximum limit value			*	Skin designation			
		ources for data u		le the SD	S			
Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database								
European Food Safety Authority (EFSA)								
EPA (Environmental Protection Agency)								
Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act								
U.S. Environmental Protection Agency High Production Volume Chemicals								
Food Research Journal Hazardous Substance Database								
International Uniform Chemical Information Database (IUCLID)								
Japan GHS Classification								
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)								
NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP)								
National Library of Medicine's PubMed database (NLM PUBMED)								
National Toxicology Program (NTP)								
New Zealand's Chemical Classification and Information Database (CCID)								
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program								
	Economic Co-op	peration and Devel				U		
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Revision Note			ion available.					
Disclaimer The information	www.viale.al.im.th	ia Cafaty Data Ch		4a 4ha ha		na infan	mation and halisf at the	
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transportation, o	disposal and re	lease and is not	to be conside	red a wa	rranty or quality sp	pecificat	ion. The information	
relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.								
				able data	a from reliable source	es and i	s correct to the best of	
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							product in violation of any	
law or regulations	6. The user is s	olely responsible f			bility of any materia	I or prod	uct for a specific purpose	

**End of Safety Data Sheet** 

federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

and for adopting any appropriate safety precautions. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). 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, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of