SAFETY DATA SHEET

Revision date 10-Oct-2022



Revision Number 1

1. Identification		
Product identifier		
Product Name	CHLOROTHALONIL 720 SELECT	
Other means of identification		
Product Code(s)	89442-9	
UN/ID no	UN3082	
Synonyms	None	
Registration Number(s)	89442-9	
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 Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide.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

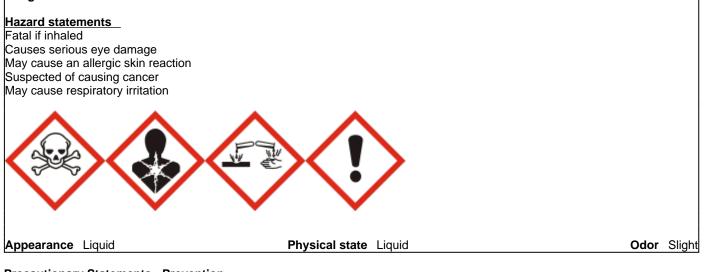
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection 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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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 locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

Other information

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

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No	Weight-%	Active Ingredient
Chlorothalonil	1897-45-6	52.38-55.62	
Other Ingredients	PROPRIETARY	>40.00	

*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. IF exposed or concerned: Get medical advice/attention.
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. 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 vapor or mist. 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 effe	cts, both acute and delayed
Most important symptoms and effe	<u>cts, both acute and delayed</u> Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes.
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.
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Symptoms Indication of any immediate medica Note to physicians	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives.
Symptoms Indication of any immediate medica Note to physicians 5. Fire-fighting measures	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives. Il attention and special treatment needed May cause sensitization in susceptible persons. Treat symptomatically.
Symptoms Indication of any immediate medica Note to physicians 5. Fire-fighting measures Suitable Extinguishing Media	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives. Il attention and special treatment needed May cause sensitization in susceptible persons. Treat symptomatically. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Symptoms Indication of any immediate medical Note to physicians 5. Fire-fighting measures Suitable Extinguishing Media Large Fire	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives. I attention and special treatment needed May cause sensitization in susceptible persons. Treat symptomatically. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Symptoms Indication of any immediate medica Note to physicians 5. Fire-fighting measures Suitable Extinguishing Media Large Fire Unsuitable extinguishing media Specific hazards arising from the	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Itching. Rashes. Hives. I attention and special treatment needed May cause sensitization in susceptible persons. Treat symptomatically. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient. Do not scatter spilled material with high pressure water streams. Product is or contains a sensitizer. May cause sensitization by skin contact.

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. Do not breathe vapor or mist. 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. Do not breathe vapor or mist. 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.
Conditions for safe storage, includi	ng 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

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Biological occupational exposure limits

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

Appropri	ate engin	eering co	ontrols

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	h 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 vapor or mist. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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	chemical properties	
Physical state	Liquid	
Appearance	Liquid	
Color	light gray	
Odor	Slight	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	6.0 - 8.0	
pH (as aqueous solution)		
Melting point / freezing point	-5 (23 °F)	
Boiling point / boiling range	100 (212 °F)	
Flash point	> 93°C (>200 °F)	
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 @ 25 °C	
Vapor density	No data available	
Relative density	No data available	
Water solubility	Soluble in water 0.6 - 0.9 ppm	
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	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	1.24 @ 25 °C (10.3 lbs/gal)	
Bulk density	No information available	
*Listed density is an approximate value an	d does not necessarily represent that of a spe	ecific 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	cause sensitization by skir	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 phys	ical, chemical and toxicologica	I characteristics		
Symptoms		Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness. Itching. Rashes. Hives.		
Acute toxicity				
Numerical measures of toxicit	y			
Unknown acute toxicity				
Oral LD50 Dermal LD50 Inhalation LC50 Component Information	3,260 mg/kg > 2,020 mg/kg 0.11 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	

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for

ingredients. Suspected of causing cancer.					
The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Chemical name	ACGIH	IARC	NTP	OSHA	
Chlorothalonil	-	Group 2B	-	X	
1897-45-6		-			
Legend					
IARC (International A	gency for Research on (Cancer)			
	0,	,	in rats or mice. Listed as (Category 2B by the	
1 2	5	1 5		5, ,	
0,	International Agency for Research on Cancer (IARC) but expert opinion based on weight of evidence is that classification as a carcinogen is not warranted.				
OSHA (Occupational Safety and Health Administration of the US Department of Labor)					
X - Present					
X Trobolit					
Reproductive toxicity	No informatio	n available			
STOT - single exposure	May cause re	espiratory irritation.			

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	Crustacea
			microorganisms	
Chlorothalonil	EC50: =0.57mg/L (72h,	LC50: =0.012mg/L (96h,	-	EC50: 0.0342 -
1897-45-6	Desmodesmus	Oncorhynchus mykiss)		0.143mg/L (48h, Daphnia
	subspicatus)	LC50: =0.0076mg/L (96h,		magna)
	EC50: =0.0068mg/L	Oncorhynchus mykiss)		
	(72h, Pseudokirchneriella	LC50: 0.0221 -		
	subcapitata)	0.032mg/L (96h, Lepomis		
		macrochirus)		
		LC50: 0.045 - 0.057mg/L		
		(96h, Lepomis		
		macrochirus)		

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

Disposal methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

products

environmental legislation.

Contaminated packaging

Do not reuse empty containers.

14. Transport information

DOT	
Notes	Containers < 119 gallons - NOT REGULATED
UN/ID no	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	
DOT Marine Pollutant	I
Marine pollutant	Chrome yellow (Lead chromate pigment)
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chrome yellow (Lead chromate pigment)), 9, III, Marine pollutant
ΙΔΤΔ	

IATA

UN number or ID number	UN3082
Transport hazard class(es)	9
Packing group	III
IATA Technical Name	Chlorothalonil
Special Provisions	A97, A158, A197
ERG Code	9L

15. Regulatory information U.S. EPA Label Information EPA Pesticide Registration Number 89442-9 **EPA Pesticide Label** CAUTION. Harmful if swallowed absorbed, through skin, or inhaled. Causes moderate eye

International Inventories

TSCA DSL/NDSL EINECS/ELINCS	Does not comply Does not comply 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

irritation.

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

SARA 313

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).

CERCLA

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 1897-45-6	Х	-	Х
Water 7732-18-5	-	-	Х

16. Other information				
NFPA <u>HMIS</u> Chronic Hazard Star	Health hazards 4 Health hazards 4 * Legend *= Chronic	Flammability 0 Flammability 0 Health Hazard	Instability 0 Physical hazards 0	Special hazards $\ -$ Personal protection $\ X$
	abbreviations and acronyms u		sheet	
Legend Section a TWA Ceiling Key literature refe Agency for Toxic S U.S. Environmenta European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Classi Australia National NIOSH (National In National Library of	8: Exposure controls/personal TWA (time-weighted average) Maximum limit value erences and sources for data Substances and Disease Registral Protection Agency ChemView afety Authority (EFSA) tal Protection Agency) uideline Level(s) (AEGL(s)) al Protection Agency Federal Ins al Protection Agency High Produ- burnal ance Database rm Chemical Information Database ification Industrial Chemicals Notification nstitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database (I protection STEL * used to compile the SD (ATSDR) Database secticide, Fungicide, and F action Volume Chemicals ase (IUCLID) n and Assessment Schem and Health) CIP)	STEL (Short Term Skin designation S	n Exposure Limit)

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 Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date10-Oct-2022Revision NoteNo information available.DisclaimerNo

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

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End of Safety Data Sheet