

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier	
Chemical Name	Mixture
Trade Names	ECHO <sup>®</sup> 720 Agricultural Fungicide
CAS No.	Mixture
EPA Identification Number	PCPA 29355
Relevant identified uses of the substance or mixture and	d uses advised against
Identified Use(s)	Fungicide
Uses Advised Against	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Details of the supplier of the safety data sheet	
Company Identification	Sipcam Agro USA, Inc.
	2525 Meridian Parkway
	Durham, NC 27713
	United States of America
Telephone	(919) 226-1195
Emergency telephone number	
Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

## **SECTION 2: HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Acute Tox. 2; Eye Irrit. 2B; Carc. 2; STOT SE 3

#### Label elements

This is a pesticide product registered with 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 labeling information below applies to non-pesticide workplace labels. For pesticide label information, refer to Section 15.

Hazard Symbol(s)

Signal Word(s) Hazard Statement(s)



DANGER

Fatal if inhaled (Aerosol). Causes eye irritation.

Suspected of causing cancer.

May cause respiratory irritation (Aerosol).



Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

Wash hands and exposed skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. If breathing is laboured, administer oxygen. Treat symptomatically.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF ON SKIN: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Treat symptomatically. Contaminated clothing should be laundered before reuse.

**IF** exposed or concerned: Get medical advice/attention. Treat symptomatically.

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

Store locked up.

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also Section 15.

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Contains: Chlorothalonil. May produce an allergic reaction in persons already sensitised. None

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)

Other hazards

**Additional Information** 



Chlorothalonil	~ 54	1897-45-6	Acute Tox. 2; H330 Eye Dam. 1; H318 Skin Sens. 1B; H317 Carc. 2; H351 STOT-SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
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Additional Information - None

# SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing.
	Immediately call a POISON CENTER/doctor. If breathing is laboured,
	administer oxygen. Treat symptomatically.
Skin Contact	Take off immediately all contaminated clothing. Gently wash with plenty
	of soap and water. If irritation (redness, rash, blistering) develops, get
	medical attention. Treat symptomatically. Contaminated clothing should
	be laundered before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing. If eye irritation persists, get
	medical advice/attention.
Ingestion	Do not give anything by mouth to an unconscious person.Get medical advice/attention if you feel unwell. Rinse mouth.
Most important symptoms and effects, both	Fatal if inhaled. Contains: Chlorothalonil. May produce an allergic reaction
acute and delayed	in persons already sensitised.
Indication of any immediate medical attention and special treatment needed	Call a POISON CENTER or doctor/physician if you feel unwell.

# SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing	Media
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-Suitable Extinguishing Media -Unsuitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
Special hazards arising from the substance or mixture	Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self- contained breathing apparatus.



# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. Wear suitable respiratory protective equipment if exposure to high levels of material are likely.
Environmental precautions	Observe directions on label and instructions for use. See Also Section 15.
Methods and material for containment and cleaning up	Observe directions on label and instructions for use. See Also Section 15. Observe directions on label and instructions for use. See Also
Additional Information	Section 15. None

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling	Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area.	
	Wear protective gloves/protective clothing/eye protection/face protection. Wear	
	respiratory protection. Wash hands and exposed skin thoroughly after handling.	
	Contaminated work clothing should not be allowed out of the workplace. Observe	
	directions on label and instructions for use. See Also Section 15.	
Conditions for safe storage, including any incompatibilities		
-Storage temperature	Store at room temperature. Do not allow material to freeze.	
-Incompatible materials	Strong oxidising agents. Substances that react with water.	
Specific end use(s)	Fungicide	

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control parameters

**Occupational Exposure Limits** 

		(8hr TWA)		(5	STEL)	
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
None						

#### Exposure controls

Appropriate engineering controls

Do **NOT** aerosolize or atomize to produce inhalable-size particles. Use low-pressure course spray only. Observe directions on label and instructions for use. See Also Section 15.

### Personal protection equipment



Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses). Skin protection (Hand protection/ Other) Gloves. Observe directions on label and instructions for use. See Also Section 15. Respiratory protection Observe directions on label and instructions for use. See Also Section 15.

Thermal hazards

**Environmental Exposure Controls** 

Not normally required.

Do not allow to enter drains, sewers or watercourses. Observe directions on label and instructions for use. See Also Section 15.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance Colour. Odour Odour Threshold (ppm) pH (Value) Melting Point (°C) / Freezing Point (°C) Boiling point/boiling range (°C): Flash Point (°C) Evaporation rate Flammability (solid, gas) Explosive Limit Ranges Vapour pressure (Pascal) Vapour pressure (Pascal) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water) Auto Ignition Point (°C) Decomposition Temperature (°C)	Liquid Light brown, opaque No incidental odor was detected Not available. 5.96 Not available. Not available. Not available. > 93.4 Not available. Not available. Not available. Not available. 1.333 Not available. Not available.
Auto Ignition Point (°C)	

#### Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

**Chemical stability** Possibility of hazardous reactions No hazardous reactions known if used for its intended purpose.

Stable under normal conditions. None anticipated.



Conditions to avoid Incompatible materials Hazardous decomposition product(s)

### Incompatible materials

Strong oxidising agents. Substances that react with water.

Combustion or thermal decomposition will evolve toxic and irritant

vapours. Forms oxides of carbon and nitrogen, also chlorine and chlorinated compounds. Decontaminate equipment or materials used in pesticide fires.

## SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects	
Substances	Not applicable
Mixtures	
Acute toxicity	Oral: LD50 = 3265 mg/kg-bw (rat) Dermal: LD50 >2020 mg/kg-bw (rat) Inhalation: LC50 = 0.11 mg/L (rat)
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	It is not a skin sensitiser in animal tests.
Germ cell mutagenicity	Not available.
Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard	Not available. Not available. Not available. Not available. Not available.
Substances in preparations / mixtures	
Chlorothalonil (CAS#1897-45-6):	
Acute toxicity (calculated / estimated)	Oral: LD50 ~3260 mg/kg-bw (rat) Dermal: LD50 ~2020 mg/kg-bw (rat) Inhalation: LC50 0.1 mg/L (4 hr) (rat) (Inhalable Dust) - May cause respiratory irritation
Irritation/Corrosivity	Causes serious eye damage.
Sensitization	Based on reliable animal studies, the substance is not a skin sensitizer except possibly in the presence of a carrier solvent such as acetone. The substance may be a weak skin sensitizer based on a relatively small number of physician's clinical reports from exposed workers and, therefore, the potential for skin sensitization cannot be completely ruled out.
Repeated dose toxicity	Not to be expected.
Carcinogenicity	Suspected of causing cancer.

	NTP	IARC	ACGIH	OSHA
	Animal carcinogen	2B	No.	No.
Mutagenicity		Not		
R	eproductive toxicity	Not	to be expected.	



### **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity Chlorothalonil (CAS# 1897-45-6):

Short term

Long Term

Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment Other adverse effects LC50 (96 hour): 0.012 mg/L(fish) EC50 (48 hour): 0.0342 – 0.143 mg/L (crustacea)

Very toxic to aquatic life with long lasting effects.

Part of the components are poorly biodegradable. Not determined. Not determined. Not classified as PBT. None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. Observe directions on label and instructions for use. See Also

Additional Information

### **SECTION 14: TRANSPORT INFORMATION**

	Land transport (U.S. DOT) *	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>	
UN number	Not classified as dangerous	UN 3082	UN 3082	
Proper Shipping Name	for transport. *	Environmentally hazardous substance, liquid, n.o.s. (Chlorothalonil)		
Transport hazard class(es) Packing group Hazard label(s) Environmental hazards Special precautions for user	TDG Canada – Not regulated for road or rail transport, regulated for marine transport only	9 III Marine Pollutant Yes None Assigned	9 III Marine Pollutant Yes None Assigned	

Section 15.

None known.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

\* For bulk shipments in U.S., can be shipped as UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorothalonil), 9, PG III

### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

**TSCA (Toxic Substance Control Act)** - Inventory Status: This is a registered pesticide product regulated under Federal Insecticide, Fungicide, and Rodenticide Act and, therefore, the components of this product are not subject to listing on the TSCA inventory.



#### EPA FIFRA Information for SDS Section 15 (Regulatory Information):

This is a pesticide product registered with 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:

**WARNING**: May be fatal if inhaled. Harmful if swallowed or absorbed though skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not breathe spray mist.

Mixers, loaders, applicators and all other handlers must wear: Long-sleeved shirt and long pants; shoes plus socks,; protective eye wear; chemical-resistant gloves made of waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, or viton (if you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart); a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**Personal Protective Equipment (PPE):** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

**Engineering Controls**: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Environmental Hazards**: This product is toxic to aquatic invertebrates and wildlife. DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater or rinsate. Chlorothalonil can contaminate surface water through spray drift. DO NOT apply when weather conditions favor drift from treated areas. Under some conditions, it may also have a 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 water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water. Chlorothalonil degradates are known to leach through soil into ground water runder certain conditions as a result of label use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

The pesticide label also includes other important information, including directions for use.

#### Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None			

### SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

#### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Chlorothalonil	1897-45-6	~ 55

### SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	TPQ (Pounds)
None				

#### Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
Chlorothalonil	1897-45-6	~ 55	Cancer



## **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16

Date of preparation: December 7, 2021

#### Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

### Hazard Statement(s)

- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H330: Fatal if inhaled.
- H335: May cause respiratory irritation.
- H351: Suspected of causing cancer.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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