

# MATERIAL SAFETY DATA SHEET

# APPLAUSE 720 FUNGICIDE

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

Loveland Products, Inc.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** APPLAUSE 720 FUNGICIDE  
**CHEMICAL NAME:** Chlorothalonil: Tetrachloroisophthalonitrile  
**CHEMICAL FAMILY:** Chlorinated Benzonitrile Fungicide  
**EPA REG. NO.:** 34704-881  
**MSDS Number:** 000881-06-LPI

**MSDS Revisions:** New

**Date of Issue:** 01/24/06

**Supersedes:** New

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This product is a light gray liquid with slight odor. Primary routes of entry are skin contact, eye contact, and inhalation.

**NOTES TO PHYSICIAN:** Persons suffering with temporary skin reactions may respond to treatment with oral antihistamines and topical or oral steroids.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Chlorothalonil	54.00	1897-45-6	not listed
Other Ingredients, including Propylene Glycol	46.00	57-55-6	not listed
Silica, amorphous		112926-00-8	10 mg/m <sup>3</sup>

## 4. FIRST AID MEASURES

**If swallowed:** Call a poison control center or doctor immediately 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.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately 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 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.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Does not flash.

**FLAMMABLE LIMITS (LFL & UFL):** Not applicable.

**EXTINGUISHING MEDIA:** Dry chemical, foam, or CO<sub>2</sub>.

**HAZARDOUS COMBUSTION PRODUCTS:** May thermally decompose under fire conditions emitting irritating and possibly toxic gases and vapors generated by thermal decomposition or combustion.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Evacuate area and fight fire from a safe distance. Minimize the amount of water used for firefighting. Equipment should be completely decontaminated after use.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire or cool containers, contain runoff, using dikes to prevent contamination of water supplies. Avoid using heavy water streams.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**Small spill or leak:** Avoid bodily contact. Confine spill by diking with suitable absorbent material. Pick up absorbed spill and place in a suitable container for proper disposal in accordance with all Federal, State and Local regulations.

**Large spill or leak:** Follow basic procedure as outlined in small spill or leak steps above. To clean and neutralize spill area, tools and equipment, scrub with a solution of hard water detergent (e.g. commercial products such as Tide®, Joy®, Spic and Span®). Absorb any excess liquid and add to the drums of waste collected. Repeat if necessary. Dispose in accordance with Federal, State and Local regulations.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Do not breathe vapors or spray mist. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

**STORAGE:** Store in a cool place. Protect from excessive heat. Do not contaminate water, food or feed by storage or disposal.

**Personal Protective Equipment (PPE): Mixers, loaders applicators and all other handlers must wear:** long sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material – Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride (PVC), or Viton®), shoes plus socks. Follow manufacturer’s instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Control airborne concentrations below the exposure guidelines. Local exhaust may be necessary when used in a confined area. Eye wash facility and safety shower should be available.

**RESPIRATORY PROTECTION:** Wear a NIOSH approved dust/mist filtering respirator (approval number prefix TC-23C) when using in an area with inadequate ventilation.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: coveralls over long-sleeved shirts and pants, chemical-resistant footwear plus socks. Wear chemical-resistant gloves.

Silica, amorphous	<b>OSHA PEL 8 hr TWA</b> 80 mg/m <sup>3</sup> /% SiO <sub>2</sub>	<b>ACGIH TLV-TWA</b> 10 mg/m <sup>3</sup>
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE AND ODOR:</b> Light gray liquid with slight odor	<b>SOLUBILITY:</b> Disperses
<b>SPECIFIC GRAVITY (Water = 1):</b> 1.34 g/ml	<b>pH:</b> 6.5-8.5
<b>VAPOR PRESSURE:</b> 5.72 x 10 <sup>-7</sup> torr (based on technical data)	<b>BULK DENSITY:</b> 11.18 lbs/gal.
<b>PERCENT VOLATILE (by volume):</b> Not established	<b>BOILING POINT:</b> 212°F / 100°C (lowest boiling component)
<b>Note:</b> These physical data are typical values based on material tested but may vary from sample to sample.	<b>EVAPORATION RATE:</b> Not established
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.	

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**INCOMPATIBILITY:** Highly alkaline conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May thermally decompose under fire conditions emitting irritating and possibly toxic gases and vapors generated by thermal decomposition or combustion

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Oral LD<sub>50</sub> (rat):</b> 9000 mg/kg	<b>Acute Dermal LD<sub>50</sub> (rabbit):</b> >2020 mg/kg
<b>Eye Irritation (rabbit):</b> Moderate eye irritant	<b>Skin Irritation (rabbit):</b> Mildly irritating
<b>Inhalation LC<sub>50</sub> (rat):</b> 0.704 mg/L (4 hr).	<b>Skin Sensitization (guinea pig):</b> A skin sensitizer
<b>Carcinogenic Potential:</b> None listed in OSHA, NTP, ACGIH or IARC.	

**12. ECOLOGICAL INFORMATION**

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 wash water or rinsate. Chlorothalonil is known to leach through soil into groundwater under certain conditions as a result of label use. Chlorothalonil can contaminate surface water through spray drift. Do not apply when weather conditions favor drift from target area.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse empty container. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by alternative methods allowed by State and local authorities, by burning. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT FOR SURFACE TRANSPORTATION

**U.S. Surface Freight Classification:** INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS: 60)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	2 Health	0 Least	2 Health
	1 Flammability	1 Slight	1 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>Y</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed

**SARA, Title III, Section 313:** Chlorothalonil (CAS: 1897-45-6) 54.0%

**RCRA Waste Code:** Not listed

**CA Proposition 65: WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

**16. OTHER**

**MSDS STATUS:** New

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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