

MATERIAL SAFETY DATA SHEET

SUPRA CAPTAN 80 WDG PCP# 24613

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 or CHEMTREC 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURED FOR:

LOVELAND PRODUCTS CANADA, INC.
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

24-Hour Emergency Phone: 1-800-561-8273
Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: Captan; (N-trichloromethylthio-4-cyclohexene-1,2-dicarboximide)

PRODUCT USE: Fungicide – Group M

PCP REG. NO.: 24613

MSDS Number: 24613-12-lpi

MSDS Revisions: Section 1

Date of Issue: 09/12/12

Supersedes: 01/07/11

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – WARNING - POISON – DANGER – CORROSIVE TO EYES. Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Avoid contact with skin and clothing. May be severely irritating or corrosive to the eyes. May be mildly irritating to the skin and in rare cases may cause skin sensitization. May cause irritation to the respiratory tract. Wash thoroughly with soap and water after handling, and before eating, drinking or smoking. Avoid breathing dust or spray mist. Primary routes of entry are Inhalation, eye contact and skin contact.

This product is off-white to light brown powder with mildly pungent odour.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Captan	80.00	133-06-2	5 mg/m ³

4. FIRST AID MEASURES

If in eyes:	Hold eyes 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 centre 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 centre or doctor for further treatment advice.
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 centre 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 centre or doctor for further treatment advice.
NOTE TO PHYSICIAN:	Probable mucosal damage may contraindicate the use of gastric lavage.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273. Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method):	Not established
FLAMMABLE LIMITS (LFL & UFL):	Not established
EXTINGUISHING MEDIA:	Foam, dry chemical, carbon dioxide, and water spray (fog).
HAZARDOUS COMBUSTION PRODUCTS:	Thermal decomposition will release Copper oxide, water, and other toxic and/or hazardous gases.
SPECIAL FIRE FIGHTING PROCEDURES:	Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	If water is used to fight fire or cool containers, dike to prevent runoff and contamination of municipal sewers and waterways.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts. Sweep up spills and transfer to approved chemical containers for disposal or rework. Keep dusting to a minimum. Check local, state and federal regulations for proper disposal. Check local or provincial regulations for proper disposal. Flush the area with water to remove any residue.

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

7. HANDLING AND STORAGE

HANDLING: 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 after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Not for use or storage in or around the house. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not contaminate water, food or feed by storage and disposal.

Personal Protective Equipment: Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or neoprene, and 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.

RESPIRATORY PROTECTION: Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Captan	not established	5 mg/m ³
Nuisance Particulates	15 mg/m ³ (total dust)	not established

PERSONAL PROTECTIVE EQUIPMENT (PPE): All mixers, loaders, applicators and other handlers (including handlers participating in seeding and transplanting as part of root-dip or greenhouse-soil treatments and persons handling/cutting/sorting treated potato seed pieces) must wear: long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material (except applicators driving motorized equipment), shoes plus socks, protective eyewear and chemical resistant apron when participating in dip treatments. In addition, a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval prefix TC-21C or a NIOSH approved respirator with any N², R, P, or HE filter must be worn by all handlers except (1) applicators driving motorized equipment and (2) mixers/loaders/applicators participating in backpack, low-pressure hand wand/handgun, and dip treatments. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR: Off-white to light brown powder with mildly pungent odour

SPECIFIC GRAVITY (Water = 1): 0.28-0.36 g/ml

VAPOUR PRESSURE: Not applicable

PERCENT VOLATILE (by volume): Not applicable

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

BULK DENSITY: 280.3 – 360.4 kg/m³

BOILING POINT: Not applicable

EVAPORATION RATE: Not applicable

SOLUBILITY: Disperses
pH: 7.5 - 9.5

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBILITY: Not determined.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, oxides of nitrogen and chlorine-containing compounds may be formed in a fire situation.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀ (male rat): >5000 mg/kg (Technical)

Eye Irritation (rabbit): Causes irreversible eye damage

Inhalation LC₅₀ (male rat): 0.72 mg/L

Carcinogenic Potential: OSHA: not listed; NTP: no human data found; IARC: Unclassifiable as to carcinogenicity in humans; ACGIH: Confirmed animal carcinogen with unknown relevance to humans.

Acute Dermal LD₅₀ (rabbit): >5000 mg/kg (Technical)

Skin Irritation (rabbit): Causes mild to moderate irritation

Skin Sensitization (Guinea Pig): Sensitizer

12. ECOLOGICAL INFORMATION

This product is toxic to fish. 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 cleaning equipment or disposing of equipment wash waters or rinsate.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Completely empty bag into application equipment. Container is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT/TDG Shipping Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (CAPTAN) 9, UN3077, III ERG GUIDE 171
U.S. Surface Freight Classification: INSECTICIDES OR FUNGICIDES, INSECT OR ANIMAL REPELLENTS; NOI; OTHER THAN POISON (NMFC 102120; CLASS: 60)
IMDG Shipping Description: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CAPTAN), 9, UN3077, III MARINE POLLUTANT

Consult appropriate ICAO/IATA regulations for shipment requirements in the Air shipping mode.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	3 Health	0 Least	3 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

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

Reportable Quantity (RQ) under U.S. CERCLA: Captan (CAS: 133-06-2) 10 pounds
SARA, Title III, Section 313: Captan (CAS: 133-06-2) 80.0%
RCRA Waste Code: Not listed
CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: Section 1 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental Health and Safety

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