Safety Data Sheet



Preparation Date 23-Mar-2016 Revision date 23-Jul-2025 Revision Number: 9

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description PENNCOZEB 75 DF RAINCOAT FUNGICIDE

Other means of identification

Internal SDS code 12-370CAN

Registration number(s) PMRA Reg # 30241

Recommended use of the chemical and restrictions on use

Recommended use Fungicides.

Uses advised against Activities contrary to label recommendation

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL Agrosolutions Canada Inc .

PO Box 12219

Research Triangle Park, NC,

27709

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1B
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

May cause an allergic skin reaction
May damage fertility or the unborn child
Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure



Appearance Granule Physical state solid Odor Slight Rotten egg-like

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Do not breathe dust/fume/gas/mist/vapors/spray Do not eat, drink or smoke when using this product Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/national regulations

Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

• Toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Zinc manganese ethylenebis	8018-01-7	75
dithiocarbamate		
Ethylene thiourea	96-45-7	0.5

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact Hold eye open and rinse slowly and gently with water for 30 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.

Skin contact Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice. Remove and wash contaminated clothing before re-use.

Inhalation 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.

Ingestion Call a physician or poison control center immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting without medical advice.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects

MAY CAUSE ALLERGIC SKIN REACTION.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon disulfide, ethylene thiourea (ETU). Sulfur oxides. Carbon oxides.

Explosion data

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Provide adequate ventilation. Wear protective

gloves/protective clothing and eye/face protection. Wash thoroughly after handling.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting

requirements, for assistance in waste characterization and/or hazardous waste disposal

and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Avoid breathing dust. Keep out of reach of children. Avoid contact with skin, eyes and

clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place.

incompatible materials Strong acids, Strong oxidizing agents,

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Zinc manganese ethylenebis dithiocarbamate		(vacated) Ceiling: 5 mg/m ³
ultillocarbamate		

Engineering controls

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Personal protective equipment

Eye/Face Protection Skin protection

Avoid contact with eyes. Goggles.

Long sleeved clothing. Long pants. Coveralls. Chemical resistant gloves. waterproof gloves.

Socks and footwear.

Respiratory protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Granule Physical state Solid

Odor Slight Rotten egg-like color Yellow to brown-gray

Remarks/ Method VALUES Property None known 6.9 pН 7.9 °C Melting point/freezing point None known **Boiling Point/Range** None known Flash Point No information available None known **Evaporation Rate** None known Flammability (solid, gas) None known Specific gravity None known **Bulk density** 0.63 g/ml None known Water solubility None known Solubility in Other Solvents Dispersible in water None known Partition coefficient: n-octanol/water None known 159 °C **Autoignition temperature** None known **Decomposition temperature** None known None known **Viscosity**

9.2 OTHER INFORMATION- NONE

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

To avoid thermal decomposition, do not overheat.

incompatible materials

Strong acids, Strong oxidizing agents,

Hazardous decomposition products

Ethylenethiourea. Hydrogen sulfide. Carbon disulfide.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation

Based on available data, the classification criteria are not met.

Eye contact May cause irritation.

Skin contact

Based on available data, the classification criteria are not met. Repeated or prolonged skin

contact may cause allergic reactions with susceptible persons.

Ingestion

Based on available data, the classification criteria are not met.

Components Information Mancozeb:

Acute oral LD50 (rat) = >5.0 g/kg Acute dermal LD50 (rabbit) = >2.0 g/kg Acute Inalation LC50 (rat) = >5.2 mg/L - 4 hr

Information on Toxicological Effects

Symptoms No information available.

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

Sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

Mutagenic effects no data available.

Carcinogenicity The information below indicates whether any agency has listed any ingredient as a

carcinogen.

 Chemical name
 ACGIH
 IARC
 NTP
 OSHA

 Ethylene thiourea
 Group 3
 Reasonably Anticipated
 X

 96-45-7

IARC: (International Agency for Research on Cancer)

A trace contaminant, Ethylene thiourea (ETU) a breakdown product of Maneb, has been catergorized as a probable human carcinogen by

NTP.

Reproductive effects May damage fertility or the unborn child.

STOT - Single Exposure no data available.

STOT - Repeated Exposure May cause damage to organs through prolonged or repeated exposure.

Target organ effects Aspiration hazardThyroid, Respiratory System.
No information available.

Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 5000 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rat)

 LC50 Inhalation
 > 20 mg/l (1 hr)

12. Ecological Information

ecotoxicity

Mancozeb = Rainbow trout =0.73 mg/L 96 hr Fathead minnow 0.57 mg/L 96 hr Bluegill sunfish = 0.84 mg/L 96 hr Freshwater algae = 0.43 mg/L 72 hr

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Ethylene thiourea	-0.66
96-45-7	

Other Adverse Effects

no data available

13. Disposal Considerations

Waste Treatment Methods

Waste Disposal Method Pesticide wastes can be hazardous. Improper disposal of excess pesticide or rinsate is a

violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

14. Transport Information

DOTNot regulated when shipped domestically by highway in non-bulk containers as per 49 CFR

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When shipped in bulk, by vessel, or internationally refer to the IMDG shipping description:

TDG When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

In bulk, by vessel or internationally - use IMDG description

<u>IATA</u> Single or inner packagings less than 5L (liquid) or 5kg net (solids) are excepted from the

Dangerous Goods regulations (IATA Special provision A197)

UN/ID no UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (Mancozeb)

Hazard class 9
Packing group PG III

Description Marine pollutant

IMDG Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the

Dangerous Goods regulations (IMDG 2.10.2.7)

UN/ID no UN3077

Proper shipping name Environmentally hazardous substances, solid, n.o.s (Mancozeb)

Hazard class 9
Packing group PG III

Environmental hazards IMDG - Marine Pollutant

15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word CAUTION

EYE IRRITANT. May irritate eyes, nose, throat and skin. Toxic to aquatic organisms.

International Inventories

USINV Not present
DSL/NDSL Not present
EINECS/ Not Present

ELINCS

ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

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 Commercial Chemical Substances/EU 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

AICS - Australian Inventory of Chemical Substances

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.

CERCLA

Not applicable

Chemical name	RQ	CERCLA EHS RQs	RQ
Ethylene thiourea	10 lb		RQ 10 lb final RQ
96-45-7			RQ 4.54 kg final RQ

CERCLA

Component	RQ
Ethylene thiourea	10 lb
96-45-7 (0.5)	

RCRA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethylene thiourea			U116
96-45-7 (0.5)			

Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (75)			X	
Ethylene thiourea 96-45-7 (0.5)			Х	

State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals:

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Component		California Prop. 65	
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (75)		Carcinogen	
Ethylene thiourea 96-45-7 (0.5)		Carcinogen Developmental	
Chemical name	CAS N	lo CATEGORY	
Zinc manganese ethylenebis dithiocarbamate	8018-01-7 Carcinogen		
Ethylene thiourea	96-45-7 Carcinogen		

Prop 65 Pictogram



Prop 65 Warning Statement California Proposition 65

WARNING

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene thiourea - 96-45-7	X	X	X	X	

International regulations

U.S. EPA Label information

EPA Pesticide registration number PMRA 30241

16. Other Information

NFPA HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date 23-Mar-2016 Revision date 23-Jul-2025

Revision Summary

Update section 2 Update section 4 Update section 5 Update section 6 Update section 7 Update Section 9 Update section 10 Update section 11 Update section 15

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12-370CAN PENNCOZEB 75 DF RAINCOAT FUNGICIDE

Revision date 23-Jul-2025

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End of SDS