

Product Name: MODO FUNGICIDE

Issue Date: Nov 1, 2021

SECTION 1: Product and Company Identification

Product Name:	MODO FUNGICIDE
Chemical Type:	Fungicide
Restrictions on use:	See product label for restrictions
Pest Control Products (PCP) Act Registration No.:	34213
Supplier information:	AgraCity Crop and Nutrition Ltd Tel: 1-844-269 3276
	320-22 nd Street East, Saskatoon, Saskatchewan Canada S7K0H1
Emergency Phone:	For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015)

Health: Acute toxicity: Inhalation (**category 4**) – harmful if inhaled.Aspiration Hazard – (**Category 1**) - causes eye irritation.**Eye Irritation – Category 2A****Flammable Liquid – Category 4****Reproductive Toxicity – Category 2****Skin Sensitization – Category 1**Skin irritation (**category 2**) – causes mild skin irritation**Specific Target Organ Toxicity (STOT) Single Exposure – Category 3**Signal word: **CAUTION****POISON****Hazard Statement(s):**

H227 – Combustible liquid.

H304 – May be fatal if swallowed and enters airway.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H319 – Causes serious eye irritation.

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H332 – Harmful if inhaled.

H336 – May cause drowsiness or dizziness.

H361 – Suspected of damaging fertility or the unborn child.

PHYSICAL PROPERTIES:**Appearance:** Brown liquid**Odor:** Aromatic**PRECAUTIONARY STATEMENTS****General:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Avoid breathing fumes, mist, vapors, or spray.

Wash hands, face, and other affected areas thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Use only outdoors or in a well ventilated area.

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

Avoid release to the environment.

Response:**IF SWALLOWED:** Immediately call a POISON CENTER/doctor/ physician. **Do NOT** induce vomiting.**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. **IF EYE IRRITATION PERSISTS:** Get medical advice/ attention.**IN CASE OF FIRE:** Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Store locked up. Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local regulation.

PHYSICAL OR CHEMICAL HAZARDS COMBUSTIBLE. Do not use or store near heat or open flame.**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO.	W/W%
Propiconazole	60207-90-1	26
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	50 ~ 70

SECTION 4: FIRST AID MEASURES

IF SWALLOWED, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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 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 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

SECTION 5: FIREFIGHTING MEASURES

FLASH POINT: 62 °C

EXTINGUISHING MEDIA: For small fire: dry chemical powder, water spray carbon dioxide. For large fire: foam, water fog, water spray.

SPECIAL EXPOSURE HAZARDS: Flashback may occur along vapor trail.

FIRE AND EXPLOSION HAZARDS: Dangerous gases are evolved in the event of a fire.

FIRE FIGHTING PROCEDURES: Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Empty containers may contain residue product and can be dangerous. Use water spray/fog for cooling containers and firefighters. Notify proper authorities if liquid material enters the sewer or public waters.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

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PERSONAL PROTECTIVE EQUIPMENT: The proper personal protective equipment for incidental releases (such as 1 liter of product released in a well ventilated area), use impermeable gloves, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with the latest OSHA and/or ANSI recommendations.

ENVIRONMENTAL PRECAUTIONS: Stop spill at source. Construct temporary dikes of dirt, sand, or appropriate readily available material to prevent spreading of material. Close cap or valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate assistance. **CONTAINMENT AND CLEANUP:** Absorb spilled liquid with polypads or other absorbent materials. Clean up with non-combustible absorbent (such as sand, soil, and so on). Shovel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Advice on safe handling Handle and open container in a manner as to prevent spillage. Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion Keep away from heat and sources of ignition.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in original container and out of the reach of children, preferably in a locked storage area. Keep away from direct sunlight. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

RESPIRATORY PROTECTION EQUIPMENT: Use an approved pesticide respirator if ventilation is not adequate or exposure to sprays, mists or concentrated vapours is likely.

PROTECTIVE GLOVES: Chemical-resistant gloves such as nitrile.

EYE AND FACE PROTECTION: Goggles or face shield when handling concentrate.

OTHER PROTECTIVE EQUIPMENT: Long sleeved shirt, long pants, socks and shoes suggested as minimum work clothing. Generally, a second layer such as coveralls suggested for handling concentrate. Use other equipment appropriate to specific situation.

VENTILATION: Use only in well ventilated area.

ENGINEERING CONTROLS: Use in a well ventilated area. General ventilation with a good source of make-up air recommended as minimum for indoor situations. Ventilation should be adequate to maintain air concentrations below flammable limits.

ADDITIONAL PROTECTIVE MEASURES: Discarded 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown Liquid
Odor	aromatic
Density	0.98 g/cm ³ at 20 °C
Flash point	100 °C
pH	5 - 7

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Hazardous decomposition	No decomposition products expected under normal conditions of use.

products

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Skin Absorption, Ingestion, Inhalation, Eye contact

Immediate Effects

Causes eye irritation.

Harmful or fatal if absorbed through the skin.

Harmful if swallowed.

Information on toxicological effects

Acute Toxicity/Irritation Studies (Finished Product):

Ingestion: Low Acute Toxicity

Oral (LD50 Rat) 2,105 mg/kg body weight

Dermal: Low Acute Toxicity

Dermal (LD50 Rat) 4,250 mg/kg body weight

Inhalation: Slightly Acutely Toxic

Inhalation (LC50 Rat) > 1.0 mg/L air – 4 hours

Eye Contact: Moderately Irritating (Rabbit)

Skin Contact: Moderately Irritating (Rabbit)

Skin Sensitization: Potential Skin Sensitizer (Guinea Pig)

Specific Target Organ Toxicity (STOT) Single Exposure:

Propiconazole: Not classified as a specific target organ toxicant, single exposure.

Specific Target Organ Toxicity (STOT) Repeated Exposure:

Propiconazole: No adverse effect has been observed in chronic toxicity tests.

Carcinogenicity:

Propiconazole: Did not show carcinogenic effects in animal experiments.

Reproductive Toxicity:

Propiconazole: Some adverse effects on development, based on animal experiments.

Mutagenicity:

Propiconazole: Did not show mutagenic effects in animal experiments.

Aspiration Hazard:

Propiconazole: Not classified as an aspiration hazard.

Toxicity of Other Components:

The acute toxicity test results reported in Section 11, above, for the finished product take into account any acute hazards related to the “other components” in the formulation.

Petroleum solvent: Repeated exposure may cause skin dryness or cracking. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat and lungs. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light headedness, headache, nausea and loss of coordination.

SECTION 12: ECOLOGICAL INFORMATION**Toxicity to fish.****Toxicity to aquatic invertebrates****Toxicity to aquatic plants**

Propiconazole:

Invertebrates (Water Flea) 48-hour LC50/EC50	2.2 ppm
Fish (Rainbow Trout) 96-hour LC50/EC50	0.85 ppm
Birds (8-day dietary – Mallard Duck) LC50	> 5,620 ppm

Biodegradability

Propiconazole: Moderately persistent in soil. Persistent in water; partitions to sediment.

Bioaccumulation

Propiconazole: BCF < 500; does not bioaccumulate

Mobility in soil

Propiconazole: Moderate to low mobility in soil.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Do not apply when weather conditions favor runoff or drift.

Drift or runoff from treated areas may adversely affect non-target plants.

Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

CONTAINER DISPOSAL: Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Do not reuse container for any purpose. If applicable, return container in accordance with return program. If a recyclable container, dispose of at a container collection site. Contact local distributor, dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site, triple or pressure rinse the empty container adding rinsings to spray tank, and make container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

SECTION 14: TRANSPORT INFORMATION**TDG Classification – Road/Rail:**

UN Number: UN 3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole).
Transport Hazard Class: Class 9
Packing Group: PG III
Environmental Hazards: Environmentally Hazardous.

Remarks:

Class 9 Exemption from Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, if transported solely on land by road vehicle or railway vehicle. 1.45.1. SOR/2008-34

Water Transport – International (IMDG):

UN Number: UN 3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole), Marine Pollutant.
Transport Hazard Class: Class 9
Packing Group: PG III
Environmental Hazards: Marine pollutant.

Air Transport (IATA-DGR):

UN Number: UN 3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Propiconazole).
Transport Hazard Class: Class 9
Packing Group: PG III

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Environmental Hazards: Environmentally Hazardous.

Special Precautions for User:

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15: REGULATORY INFORMATION**CANADIAN REGULATIONS:****Hazardous Products Act Information: WHMIS 2015 Classification**

This product is exempt under WHMIS2015.

Pest Control Products (PCP) Act Registration No.: 34213

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Read the approved PCPA label prior to using or handling this pest control product.

SECTION 16: OTHER INFORMATION**NFPA 704 (National Fire Protection Association):**

Health - 2 Flammability - 2 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2 Flammability - 2 Physical Hazard - 2 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard