



Material Safety Data Sheet

PROBLAD VERDE Fungicide

Revision Date: 2017-04-05

Version: 1.1 (EN)

This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name PROBLAD VERDE

Recommended use Fungicide

Company Address: CEV, SA
Zona Industrial de Cantanhede / BiocantPark - Lote 120
3060-197 Cantanhede, Portugal

Telephone: +351 231 419 363

2. HAZARDS IDENTIFICATION

Appearance Brown liquid

Physical state Liquid

Odor Sweet earthy odor

Potential health effects

Acute effects

Eyes May cause slight irritation.

Skin Substance may cause slight skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion No hazard from product as supplied. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects No known effect based on information supplied.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7732-18-5	34
Mixture of inert, non-reactive ingredients	Not Applicable	46
Active Ingredient: Protein extracted from plants of the genus Lupinus	1219521-95-5	20

4. FIRST AID MEASURES

Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	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.
Inhalation	Move to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	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.

5. FIRE-FIGHTING MEASURES

Flash point	No information available
Sensitivity to Mechanical Impact	Not applicable
Sensitivity to Static Discharge	Not applicable
Protective equipment and precautions for firefighters	In the event of fire, wear self contained breathing apparatus.

NFPA

Health Hazard	1
Flammability	1
Stability	0
Special Hazards	-

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for containment	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling	Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure guidelines</u>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Occupational exposure controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
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Personal Protective Equipment

General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	For dust, splash, mist or spray exposures wear a filtering mask.
Eye/face protection	For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.
Skin and body protection	Wear long-sleeved shirt, long pants, socks, shoes, and gloves.
Hand protection	Protective gloves.
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Launder work clothing separately from regular household laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown liquid
Color	Brown
Physical state	Liquid
Odor	Sweet earthy odor
pH	5.0 – 7.5
Melting Point/Range	No information available
Freezing point	No information available
Boiling Point/Range	100±0 (°C)/99-100(°C)
Flash Point	No information available
Evaporation rate	Not applicable
Vapor pressure	No information available
Vapor density	No information available
Density	1.20 ± 0.06 g/mL
Water solubility	Soluble in water
Percent volatile	No information available
Partition coefficient	Not applicable
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Eye contact	Slightly or non-irritating (rabbit)
Skin contact	Slightly or non-irritating (rabbit)
LD50 Dermal	> 2000 mg/kg (rat)
LD50 Oral	> 5000 mg/kg (rat)
LC50 Inhalation	> 5.34 mg/L (rat)
Sensitization	Non-sensitizing
<u>Chronic Toxicity - Other Ingredient(s)</u>	
Chronic Toxicity	No known effect based on information supplied
Carcinogenicity	There are no known carcinogenic chemicals in this product

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Ecotoxicity effects	Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
Environmental Fate	No known effect based on information supplied.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

<u>DOT</u>	This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.
Packaging Type	Bulk, Non-Bulk
<u>TDG</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION

U.S. 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.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Mexico – Grade

Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

16. OTHER INFORMATION

Revision Date:

2017-04-05

Disclaimer:

CEV, SA believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of CEV, SA, CEV, SA expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

End of Material Safety Data Sheet