



Safety Data Sheet

Issue Date: no data available

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Version: 1.01

1. IDENTIFICATION

Product Identifier:

Product Name: Banrot® 40 WP (40% Wettable Powder)
Product Number(s): E957252

Recommended Use of the Chemical and Restrictions on Use:

Description: Fungicide

Company:

Everris NA Inc.
P.O. Box 3310
Dublin, OH 43016
EPA Registration No.: 58185-10

24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300
CHEMTREC (International): 1-703-527-3887
Non-Emergency Calls: 1-800-492-8255

2. HAZARD(S) IDENTIFICATION

This product is regulated by the Environmental Protection Agency (EPA). For label precautionary text, see Section 15.

OSHA Regulatory Status:

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Carcinogenicity:	Category 2

Label Elements:

Emergency Overview

Warning

Hazard Statements:

HARMFUL IF INHALED
May cause an allergic skin reaction
Suspected of causing genetic defects
Suspected of causing cancer



Appearance: powder

Physical State: Solid

Odor:

Strong irritating

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see .? on this label)
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC):

Other Information:

- MAY BE HARMFUL IF SWALLOWED
- Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %	Trade Secret
Inert Ingredients	PROPRIETARY	60	*
Thiophanate-methyl	23564-05-8	25	*
Etridiazole	2593-15-9	15	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures:

Eye Contact: 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. Call a poison control center or doctor for treatment advice.

Skin Contact: 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.

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 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.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray. Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media: High volume water jet.

Specific hazards: Dust at sufficient concentrations may form explosive mixtures with air.

Hazardous Combustion Products: Combustion can produce toxic fumes and irritating gases.

Explosion Data:

Sensitivity to Mechanical Impact:

no data available.

Sensitivity to Static Discharge:

no data available.

Special Protective Equipment 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 dust formation. Avoid contact with skin, eyes and clothing. Do not inhale dust/mist. Do not ingest.

Environmental Precautions: Prevent product from entering drains. Avoid subsoil penetration.

Methods and Material for Containment and Cleanup:

Methods for containment: Avoid dust formation. Sweep up material and place in disposal container.

Methods for Cleanup: If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated, put in appropriate container and dispose.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from heat or open flame. Do not contaminate water, food, or feed by storage or disposal. Keep out of reach of children and domestic animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Exposure Guidelines: .

Ingredients	CAS-No	ACGIH:	OSHA:	IDLH:
Inert Ingredients	PROPRIETARY	Not Listed	Not Listed	Not Listed
Thiophanate-methyl	23564-05-8	Not Listed	Not Listed	Not Listed
Etridiazole	2593-15-9	Not Listed	Not Listed	Not Listed

Appropriate Engineering Controls:

Engineering Measures to Reduce Exposure: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side shields, goggles, or face shield.

Skin and Body Protection: Wear long-sleeve shirt, pants, shoes with socks, and gloves. Chemical resistant gloves. Chemical-resistant apron.

Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. NIOSH-approved respirator with and organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH TC-23C), or a canister approved pesticides (NSHA/NIOSH TC-14G) or a NIOSH approved respirator with OV cartridge with any N, R, P, or HE prefilter.

General hygiene considerations: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State:	Solid	Appearance:	powder
Color:	Tan	Odor	No information available
Odor:	Strong, irritating	Threshold:	

<u>Property</u>	<u>Values</u>	<u>Remarks: • Method</u>
pH:	No information available	
Melting Point/Freezing Point:	No information available	
Boiling Point/Range:	No information available	
Flash Point:	No information available	
Evaporation Rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limits in Air:		
Upper Flammability Limit:	No information available	
Lower Flammability Limit:	No information available	
Vapor Pressure:	No information available	
Vapor Density:	No information available	
Specific Gravity:	No information available	
Solubility:	Soluble	
Solubility in other Solvents:	No information available	
Partition Coefficient:	No information available	
Autoignition Temperature:	No information available	
Decomposition Temperature:	No information available	
Kinematic Viscosity:	No information available	
Dynamic Viscosity:	No information available	
Explosive Properties:	No information available	

Oxidizing Properties: Not considered an oxidizer

Other Information:

Softening Point: No information available
Molecular Weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: 40 lbs/cu ft

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemically Stable: yes.

Conditions to Avoid: Take precautionary measures against static discharges. Extreme heat. Contact with strong alkalis, oxidizers, and reducing agents. Strong oxidizing agents.

Materials to avoid Strong acids, bases, oxidizers, and reducing agents.

Hazardous Decomposition Products: Contact with acids liberates very toxic gas.

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Eye effects: Irritating to eyes

Skin effects: Irritating to skin, May cause an allergic skin reaction

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: Harmful by inhalation.

Component Information:

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Thiophanate-methyl 23564-05-8	-	-	= 1700 mg/m ³ (Rat) 4 h

Information on Toxicological Effects:

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

Sensitization: May cause sensitization by skin contact
Mutagenic effects No information available.
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product Information:

The following values are calculated based on chapter 3.1 of the GHS document: .

ATEmix (oral):	3333 mg/kg
ATEmix (dermal):	7333 mg/kg
ATEmix (inhalation-dust/mist)	2.1 mg/l
LD50/oral:	> 5.0 g/kg
LD50/dermal:	> 2.0 g/kg
LC50/inhalation:	> 2.12 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Unknown Aquatic Toxicity: 60% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: Inherently biodegradable. Non-persistent.

Mobility: Water contaminating.

Additional 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. Do not contaminate water when disposing of equipment washwaters. Etridiazole can contaminate surface water through spray drift. Under some conditions, etridiazole may have a high potential for runoff into surface water for several weeks postapplication. These conditions include poorly draining or wet soils with readily visible slopes toward adjacent surface water, frequently flooded areas, areas overlaying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent waters with vegetated filter strips, and areas overlaying tile drainage systems that drain surface water.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Disposal of Wastes: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used 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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not regulated

<p>DOT (AIR) IATA (Air) IMO/IMDG (Vessel)</p>	<p>Not regulated UN3077, Environmentally Hazardous Substance, solid, n.o.s. (etridiazole), 9, PGIII UN3077, Environmentally Hazardous Substance, solid, n.o.s. (etridiazole), 9, PGIII, Marine Pollutant, LTD QTY</p>
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15. REGULATORY INFORMATION

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

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Ingredients	CERCLA/SARA 313	CERCLA/SARA RQ	Reportable Quantity (RQ)
Thiophanate-methyl 23564-05-8	10 lb final RQ 4.54 kg final RQ	-	--

State Regulations (RTK):

California Proposition 65:

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

Component	California Proposition 65:
Etridiazole 2593-15-9 (15)	carcinogen, initial date 10/1/94

U.S. State Right-to-Know Regulations:

U.S. EPA Label information:

EPA Pesticide Registration Number:

58185-10

EPA Statement:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide label:

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes or on clothing. Wear goggles or face shield. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

16. OTHER INFORMATION

NFPA: Health: 3 Flammability: 0 Reactivity: 1

HMIS: Health: 3 Flammability: 0 Reactivity: 1

Revision Date: 29-May-2015

Revision Note:

Reason for revision: None

Disclaimer

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End of Safety Data Sheet