

MATERIAL SAFETY DATA SHEET

**Rainbow Treecare Scientific Advancements
2239 Edgewood Ave S
St. Louis Park, MN 55426**

**In Case of Emergency, Call
1-877-272-6747**

1. PRODUCT IDENTIFICATION

Product Name: **CAMBISTAT 2SC** Product No.: **200-3** (A8164B)
EPA Signal Word: **Caution** EPA Reg. No. 100-1014-74779
Active Ingredient (%): **Paclobutrazol Technical (22.94%)** CAS No.: 76738-62-0
Chemical Name: **(R*,R*)-beta-[(4-chlorophenyl)methyl]-alpha(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol**
Chemical Class: **A triazole plant growth regulator.**
EPA Registration Number(s): **100-1014-74779** Section(s) Revised: **1, 3, 4, 5, 6, 7, 8, 10, 13**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Propylene Glycol	Not Established	Not Established	50 ppm TWA AIHA WEEL ****	No
Paclobutrazol Technical (22.94%)	Not Established	Not Established	5 mg/m ₃ 8-hr TWA *	No

* Recommended by manufacturer

**** Recommended by AIHA (American Industrial Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Harmful if inhaled or swallowed. Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin irritation.

Physical Properties

Appearance: Off-white/buff/beige liquid

Odor: Not available

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed, induce vomiting immediately as directed by medical doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: Wash off in flowing water or shower.

Inhalation: If inhaled: Move person to fresh air. Call doctor for further treatment advice if effects occur.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None known

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Does not flash

Flammable Limits (% in Air): Upper: % Not Applicable Lower: % Not Applicable

Auto ignition Temperature: Not Available

Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATIONS AND ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is prolonged or frequently repeated, wear chemical-resistant (such as nitrile or butyl) gloves.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white/buff/beige liquid
 Odor: None
 Boiling Point: 212°F
 Specific Gravity/Density: 1.09 g/mL
 pH: 7.92

Solubility in H₂O

Paclobutrazol Technical: 26mg/L @ 68°F (20°C)

Vapor Pressure

Paclobutrazol Technical: 1.0E-06 Pa @ 68°F (20°C)

10. STABILITY AND REACTIVITY

Stability: Stable under standard conditions.
 Hazardous Polymerization: Will not occur.
 Conditions to Avoid: None known.
 Materials to Avoid: Oxidizing agents.
 Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Slightly Toxic
 Oral (LD50 Rat) : > 2,000 mg/kg body weight

Dermal: Practically Non-Toxic
 Dermal (LD50 Rat) : > 4,000 mg/kg body weight

Inhalation: Vapors unlikely
 Inhalation (LC50 Rat) : >250mg/M³ for 4 hours

Eye Contact: Slightly Irritating (Rabbit)
 Skin Contact: Non-Irritating (Rabbit)
 Skin Sensitization: It is not a skin sensitizer in animal tests.

Neurotoxicity

Paclobutrazol Technical: Negative.

Reproductive Effects

Paclobutrazol Technical: Causes birth defects only at doses toxic to the mother

Chronic/Subchronic Toxicity Studies

Paclobutrazol Technical: In the process of being identified and acquired.

Carcinogenicity

Paclobutrazol Technical: Negative

Toxicity of Other Components

Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Target Organs

Active Ingredients

Paclobutrazol Technical: In the process of being identified and acquired.

Inert Ingredients

Propylene Glycol: CNS, skin, eye, kidney, liver

12. ECOLOGICAL INFORMATION

Summary of Effects

Paclobutrazol Technical: This material is toxic to fish and wildlife. Toxic to aquatic organisms.

Eco-Acute Toxicity

Paclobutrazol Technical: Green Algae 96 hours EbC50 7.2 mg/l

Eco-Chronic Toxicity

Paclobutrazol Technical: Not Available

Environmental Fate

Paclobutrazol Technical:

No data available for the formulation. The information presented here is for the active ingredient, paclobutrazol. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

Soil/Environment: Soil DT50 0.5-1.0 y in general; in calcareous clay loam (pH 8.8, 14% o.m.), DT50 <42 D; in coarse sandy loam (pH 6.8, 4% o.m., DT50 >140 d.

13. DISPOSAL CONSIDERATIONS

Disposal Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state,

and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Not regulated by DOT.

B/L Freight Classification

Plant Growth Inhibitor, Modifier, or Regulator

Comments

None

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65

Not Applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

For non-emergency questions about this product call: 1-877-ARBORIS(T)

Original Issued Date: 04/28/2000

Revision Date: 01/22/2002

Replaces: 08/14/2001

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

RSVP# : (SCP-955-0304B)

End of MSDS