

SAFETY DATA SHEET

Preparation Date May 26, 2017

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

Product identifier	Rebound Fungicide
Chemical names	Tebuconazole ([RS]-1-[4-chlorophenyl]-4,4-dimethyl-3-[1H-1,2,4-triazol-1-ylmethyl]- pentan-3-ol Azoxystrobin Methyl(E)-2-{2-[-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate
EPA Product Reg. No.	87845-9
EPA Signal Word	Caution
Product type	liquid fungicide concentrate
Supplier information	Agromarketing Company, Inc., 133 Mavity St. Toronto, ON Canada M6P 2L8 416-628-5147
Emergency Number	CHEMTREC 1800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

Hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity oral	Category 4
Acute toxicity - Dermal	Category 4
Eye irritancy	Category 2B
Aquatic hazard (acute)	Category 1
Aquatic hazard (long term)	Category 2

Environmental Hazards

Slightly toxic to fish and bees

Physical Hazards

Combustible

Label elements

WARNING

Hazard statements

Causes eye irritation.
Suspected of damaging the unborn child. Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects



Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood.

Applicators and other handlers must wear:

- Long sleeve shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Precautionary Statements - Response

Collect spillage. IF exposed or concerned: Get medical 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 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

If medical advice is needed, have container and /or booklet label at hand.

Precautionary Statements - Storage

Store out of reach of children and domestic animals

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

none known

OTHER INFORMATION

- toxic to aquatic life

3. Composition / information on ingredients			
Chemical Name	% w/w	CAS No.	Trade secret
tebuconazole	18.35%	107534-96-3	N
azoxystrobin	11.15%	131860-33-8	N
propylene glycol	6%	57-55-6	N
nonionic surfactants	4 - 6%%	mixture	N

4. FIRST AID MEASURES	
IF IN EYES	<ul style="list-style-type: none"> • 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.
IF SWALLOWED	<ul style="list-style-type: none"> • 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 by a poison control center or doctor. • Do not give anything to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p> <p>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300</p>	

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Any fire extinguishing media (water, foam, dry chemical, CO2) may be used .

Decomposition Products

Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Large spill: Dyke around spill as necessary. If wet, absorb product with a clay-based absorbent. Remove dry product, absorbent and contaminated soil for disposal in accordance with applicable local regulations.

Small spill: Remove contaminated soil and place in containers for disposal in accordance with applicable local regulations.

Avoid contamination of water bodies during cleanup and disposal. Personal protective equipment is **not** needed to cleanup land spills.

SPILLAGE ONTO HARD SURFACES: Limit area of spillage by barricading if necessary. Absorb product with a clay-based absorbent. Sweep up or vacuum, and place product into containers for disposal in accordance with applicable local regulations. Clean surface with water.

SPILLAGE INTO WATER: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the tebuconazole and azoxystrobin values to a negligible level.

IN ALL CASES

Wear protective equipment as needed (see section 8).

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children. Wear protective gloves/clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm):

COMPONENT	OSHA PEL	ACIGH TLV
azoxystrobin	Not listed	Not listed
tebuconazole	Not listed	Not listed
Propylene Glycol	Not listed	Not listed

* minor contaminant in naphthalene

ENGINEERING CONTROLS: Enclosed Cockpits: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)].

Mechanical Flagging Engineering Controls: Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

PERSONAL PROTECTION:

Personal protective equipment

Applicators and other handlers must wear:

- Long sleeve shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	white emulsion
Odor:	Characteristic
Density:	1.075 g/ml
Vapor Pressure (mm/Hg):	Negligible @ 20°C
Solubility in Water:	not soluble - emulsifies
Melting Point:	Not applicable
pH @ 20°C:	5.5 (1% in water)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): Stable under normal conditions. Avoid extreme heat (>110°F)

INCOMPATIBILITY: Strong acids, strong oxidizing agents, water, quaternary ammonium salts, EBDC sequestering agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

The following information is available for the formulation:

INGESTION:	Oral LD ₅₀ (rat)	>2000 mg/kg
DERMAL:	Dermal LD ₅₀ (rat)	>5000 mg/kg
INHALATION:	Inhalation LC50 (rat)	0.371 mg / L
SENSITIZATION:	Skin sensitization (guinea pig)	non-sensitizer
IRRITATION:	Primary eye irritation (rat) Primary skin irritation (rat)	slight reversible irritation

12. ECOLOGICAL INFORMATION

Product/ingredient name	Result	Species	Exposure
Tebuconazole ([RS]-1-[4-chlorophenyl]-4,4-dimethyl-3-[1H-1,2,4-triazol-1-ylmethyl]-pentan-3-ol)	Acute EC50 1.45 ppm Fresh water	Algae - Scenedesmus subspicatus	4 days
	Acute IC50 3200 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 750 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2.37 mg/L Fresh water	Fish - Cyprinus carpio - Fingerling	96 hours
	Chronic IC10 1200 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.12 ppm Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.012 ppm	Fish - Oncorhynchus mykiss	83 days
Azoxystrobin (ISO)	Acute IC50 230 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 0.071 mg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 470 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic IC10 32 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 44 ppb Marine water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 147 ppb	Fish - Pimephales promelas	28 days

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Pesticide wastes are 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.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole ([RS]-1-[4-chlorophenyl]-4,4-dimethyl-3-[1H-1,2,4-triazol-1-ylmethyl]-pentan-3-ol) Azoxystrobin (ISO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole ([RS]-1-[4-chlorophenyl]-4,4-dimethyl-3-[1H-1,2,4-triazol-1-ylmethyl]-pentan-3-ol) Azoxystrobin (ISO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole ([RS]-1-[4-chlorophenyl]-4,4-dimethyl-3-[1H-1,2,4-triazol-1-ylmethyl]-pentan-3-ol) Azoxystrobin (ISO)
Transport hazard class(es)	9	9	9
Packing group	II	II	II
Environmental	Yes.	Yes.	Yes.

hazards			
Additional information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
TSCA 8(a) CDR Exempt/Partial exemption: Not determined

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:

signal word CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed
SARA 302/304	Not applicable
SARA 311/312 Classification	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA 313	not applicable
California Prop 65	not listed

16. OTHER INFORMATION

SDS Status:

Date of this Revision: May 26, 2017

Date of Previous Revision: NA

Person Responsible for Preparation: Don O'Shaughnessy, Ph.D., DABT, President DOC Inc.

Reasons for Revision: new product

DISCLAIMER:

This information is provided for the limited guidance to the user. While Agromarketing Company, Inc. believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

ABBREVIATIONS:

a.i.	-	Active ingredient
ACGIH	-	American Conference of Governmental Industrial Hygienists
CERCLA	-	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	-	Environmental Protection Agency
FIFRA	-	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	-	International Agency for Research on Cancer
NTP	-	National Toxicology Program
SARA	-	Superfund Amendments and Reauthorization Act
TSCA	-	Toxic Substances Control Act
DOT	-	Department of Transportation
IMDG	-	International Maritime Dangerous Goods
IATA	-	International Air Transport Association

This is the last page of this SDS. There should be 6 pages.