

# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



## 1. IDENTIFICATION

**PRODUCT NAME:** REGEV HBX

**DESCRIPTION:** Liquid fungicide

**EPA Reg. No.:** 86182-6-88783

**COMPANY IDENTIFICATION:**

**Summit Agro USA, LLC**

240 Leigh Farm Road, Suite 415

Durham, NC 27707

## 2. HAZARD IDENTIFICATION

### DANGER

Harmful if swallowed (H302)

Causes serious eye damage (H318)

Toxic to aquatic life with long last effects (H411)

Combustible liquid (H227)



### HAZARD CLASSIFICATION

#### Health Hazards

Acute toxicity - Oral

#### Category

4

#### Physical Hazards

Flammable liquid

#### Category

4

Serious eye damage / eye irritation

1

#### Environmental Hazards

Hazardous to the aquatic environment, long-term

#### Category

2

### HAZARDS NOT REQUIRING CLASSIFICATION

None.

### PRECAUTIONARY STATEMENTS - PREVENTION

Keep away from heat/sparks/open flames/hot surfaces. No smoking. (P210)

Wash hands and exposed skin thoroughly after handling. (P264).

Do not eat, drink, or smoke when using this product. (P270).

Wear protective gloves, eye protection, and protective clothing. Refer to Section 8 for specific PPE requirements. (P280)

### PRECAUTIONARY STATEMENTS - RESPONSE

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. (P305+P351+P338+P310)

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell. (P301+P312)

Rinse Mouth. (P330)

Avoid release to the environment. Collect spillage. (P273+P391)

### PRECAUTIONARY STATEMENTS – STORAGE / DISPOSAL

Store in a well-ventilate place. Keep cool. (P403+P235)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Difenoconazole	1-[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole	119466-68-3	18.8-21.2%
Tea Tree Oil	--	68647-73-4	18.8-21.2%

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

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: **1-800-424-9300**.

**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 center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

**IF INHALED:** 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.

**Note to physician:** No special antidote. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. FIREFIGHTING MEASURES

**Flash Point:** 78.7°C

**Fire and Explosion Hazards:** Flash back may occur a long vapor trail.

**Extinguishing Medium:** Foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Cool containers at risk with water spray jet.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** Carbon oxides, chloride and nitrogen compounds.

**NFPA Ratings:** Health – 3 / Flammability – 2 / Reactivity – 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain or soil. Contain contaminated water. In case of leakage to water course inform the respective authorities.

**Spill Cleanup:** Clean up spill immediately. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) Dispose of waste as indicated in Section 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing vapor or spray mist. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storage:** Store product in original container only, in a dry, cool place out of direct sunlight and away from heat sources. Keep from overheating or freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Ventilation is required.

**Protective Clothing:** Applicators and other handlers must wear suitable protective clothing including long-sleeved shirt and long pants, socks and shoes, protective eyewear, and waterproof gloves.

**General:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product, do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. Wash clothing separately before re-use, use detergent and hot water. Keep and wash PPE separately from other laundry. When handling do not eat, drink or smoke. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	amber liquid	<b>pH (1%):</b>	4-8.5 @ 20°C
<b>Odor:</b>	characteristic	<b>Kinematic viscosity:</b>	not available
<b>Melting/freezing point:</b>	not available	<b>Solubility:</b>	miscible
<b>Boiling point/Boiling range:</b>	not available	<b>Partition coefficient:</b>	not available
<b>Flammability:</b>	not available	<b>Vapor pressure:</b>	3.3 x 10 <sup>-5</sup> mPa
<b>Flammability limits (upper/lower):</b>	not available		(25°C) difenoconazole
<b>Flash point:</b>	78.7°C (closed cup)	<b>Density:</b>	0.96 – 1.0 g/mL @ 20°C
<b>Auto-ignition temperature:</b>	not available	<b>Relative vapor density:</b>	not available
<b>Decomposition temperature:</b>	not available	<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Heat, open flame and ignition sources.

**CHEMICAL STABILITY:** Stable under normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides, chloride and nitrogen compounds.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Information presented below is from testing done on the formulated product:**

**ORAL TOXICITY (rat LD<sub>50</sub>):** 1,000 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 12.96 mg/L (Maximum attainable concentration)

**EYE IRRITATION:** Severe irritant

**SKIN IRRITATION:** Not an irritant (rabbit)

**SKIN SENSITIZATION:** Guinea pig – Not sensitizer

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Group C Carcinogen (possible human carcinogen) (difenoconazole)

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects for the active ingredients or other components.

**REPRODUCTIVE TOXICITY:** No evidence of fertility or reproductive effects for the active ingredients or other components.

**TERATOGENICITY:** No evidence of teratogenic effects for the active ingredients or other components.

**OTHER TOXICITY:** None known.

## 12. ECOLOGICAL INFORMATION

Tea tree oil is highly toxic to aquatic invertebrates and practically nontoxic to fish and insects. Tea tree oil is not phytotoxic. Difenconazole is toxic to aquatic invertebrates and aquatic plants.

### The following information is based on formulation:

Ecotoxicity –

Fish ( <i>Danio rerio</i> ):	LC50 (96 h) = 1.31 mg/L
Daphnia magna:	EC50 (48 h) = 3.66 mg/L
Algae ( <i>Pseudokirchneriella subcapitata</i> ):	EC50 (72 h) = 2.71 mg/L
Birds Japanese quail ( <i>Coturnix coturnix japonica</i> ):	Acute oral LD50 > 2,000 mg/kg
Bees ( <i>Apis mellifera</i> ):	Oral LD50 (48 hours) = 51.62 µg test item/bee

### The following information is for the active ingredient, Tea Tree Oil:

Daphnia Magna: (48h LC<sub>50</sub>): 0.591 mg/L

### The following information is for the active ingredient, Difenconazole:

Fish: (96h LC <sub>50</sub> ): 1.1 mg/L	Mallard Duck (Oral LD <sub>50</sub> ): > 2150 mg/kg; (5-day LC <sub>50</sub> ): > 5000 ppm
Daphnia Magna: (48h EC <sub>50</sub> ): 0.77 mg/L	Japanese quail: (Oral LD <sub>50</sub> ) > 2000 mg/kg
Green Algae (72h EC <sub>50</sub> ): 0.03 mg/L	Bobwhite quail: (5-day LC <sub>50</sub> ): > 4760 ppm
Lemna Gibba (14-day EC <sub>50</sub> ): 9.9 mg/L	Bee Contact (48h LD <sub>50</sub> ): >100 µg/bee; Oral (48h LD <sub>50</sub> ): > 177 µg/bee

### Environmental fate:

Due to its high volatility and ready biodegradability, Tea Tree Oil is not expected to be persistent, mobile or bio accumulative in the environment.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Refer to product label for specific instructions.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

### US-DOT:

#### Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

#### Containers > 1.3 gal. (5 L) and < 119 gal. (450 L) shipped "ground only":

Not regulated

#### Containers > 1.3 gal. (5 L) shipped all or in part by vessel:

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (Tea Tree Oil, Difenconazole), 9, III, Marine Pollutant

Emergency Guide: 171

#### Containers > 119 gal. (450 L) shipped US "ground only" (This classification applies only to ground shipments within the US. The ID Number, NA1993 and Combustible liquid shipping description are valid in the US only):

Shipping Description: NA1993, Combustible liquid, N.O.S. (Tea Tree Oil), III

Emergency Guide: 128

### IMDG:

#### Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

#### Containers > 1.3 gal. (5 L):

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (Tea Tree Oil, Difenconazole), 9, PG III, Marine Pollutant

### IATA:

#### Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

#### Containers > 1.3 gal. (5 L):

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (Tea Tree Oil, Difenconazole), 9, PG III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

### **FIFRA –**

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. The following is the hazard information as required on the pesticide label:

#### **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER** Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Wear goggles or face shield. Wash hands 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.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, mammals, and aquatic invertebrates.

#### **Surface Water Advisory**

This product may impact surface water quality due to runoff of rain water.

#### **PHYSICAL/CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

#### **SARA Title III – Section 302 Extremely Hazardous Substances**

Not listed

#### **SARA Title III – Section 311/312 Hazard Categories**

Not listed

#### **SARA Title III – Section 312 Threshold Planning Quantity**

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

#### **SARA Title III – Section 313 Reportable Ingredients**

None

#### **CERCLA Reportable Quantity (RQ) –**

Not listed

#### **CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

#### **CANADA –**

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

## **16. OTHER INFORMATION**

### **CONDITIONS OF SALE AND LIMITED WARRANTY**

The Directions for Use are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of

SUMMIT AGRO USA, LLC. or the SELLER. To the extent consistent with applicable law, all such risks shall be assumed by the buyer. Summit Agro USA, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. SUMMIT AGRO USA LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SUMMIT AGRO USA LLC AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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SDS Version: 1.0

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