

MATERIAL SAFETY DATA SHEET

SECTION 1 : PRODUCT IDENTIFICATION

Product Name : **THYME GUARD**
Product Use : Used a part of a plant nutritional and protection program
Transport of Dangerous Goods (TDG) : unregulated
Supplier : Agro Research International llc.
Address : 703 Camarague Place #203
Lake Mary Fl 32746
Telephone : (407)302-6116
Emergency Phone : (407)435-9105

SECTION 2 : HASARDOUS INGREDIENTS

Ingrédients	CAS#	Wt %	TLV	LC ₅₀	LD ₅₀
Thyme oil extract:	8007-46-3	23%			980 mg/Kg (oral, rat)

Sodium Citrate
Molasses, Water

SECTION 3 : PHYSICAL DATA

Boiling Point (° C) : 100 Specific Gravity (H₂O = 1) : 1.012 at 23° C
Vapor Pressure (mm Hg) : n.a. % Volatile (Wt%) : approx. 70%
Vapor Density (Air = 1) : n.a. Evaporation Rate (Water + 1) : less than 1
Solubility in water : complete pH (as supplied) : 8.0 to 9.0
Physical State : liquid Viscosity : < 100 cps at 25 ° C
Appearance and Odor : clear, colorless Odor Threshold (ppm) : n.a. To pale yellow liquid with thyme odor

SECTION 4 : FIRE AND EXPLOSION DATA

Flammability : N/A
Flash Point (TCC, ° C) : ≥ 62°C LEL : n.a. UEL : n.a.
Hazardous Combustion Products: Smoke, carbon oxides, sulfur oxides.
Auto ignition temperature: n.a.
Suitable extinguishing media: Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical
Special Fire Hazards: n.a.

SECTION 5 : REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions.
It does not polymerize.

Incompatible Materials: Strong oxidizing agents, alkalis, strong acids.

Reactivity and Under What Conditions: Avoid excessive heat.

Hazardous Decomposition Products : The thermal decomposition can produce carbon and sulfur oxides and other organic substances.

SECTION 6 : TOXICOLOGICAL PROPERTIES

Route of Entry : Eyes, skin, ingestion, inhalation.

EFFECTS of ACUTE EXPOSURE :

Eye : Pain, redness, eye irritation.

Vapors may cause eye irritation.

Skin : Skin dryness and irritation may appear

Ingestion : Nausea, vomiting, abdominal pain, diarrhea, anesthesia, drowsiness, narcotic effect.

Inhalation : Skin and throat irritation. Headache, nausea, dizziness, drowsiness, anesthesia.

EFFECTS of CHRONIC EXPOSURE :

Irritancy : Frequent prolonged contact may produce dry skin, redness and dermatitis.

Daily breathing of large quantities of vapor can produce drowsiness, dizziness, nausea, headache.

Skin Sensitization : Repeated or prolonged use may produce sensitization on some persons.

Carcinogenicity : No, not predictable.

Mutagenicity : n.a. No.

Synergistic Materials : Solvents, soaps.

SECTION 7 : PREVENTATIVE MEASURES

Gloves : Plastic or rubber gloves to manipulate large quantities of the pure product.

Eye Protection : Safety glasses with side shields to manipulate large quantities.

Respiratory Protection : Wear an organic vapor respiratory mask for large scale application.

Other Protective Equipment : Waterproof apron or overall. Waterproof boots if large spill.

Engineering Controls : Eye wash station and safety shower if large quantities are manipulated.

Provide an adequate ventilation. Make sure there is no open flame or sparkes in the area.

Leak and Spill Procedure : Wear protective equipment. Stop the leak. Pump the product into drums for disposal.

Resume cleaning by rising with water. Do not dump into rivers and lakes.

Waste Disposal : Burn into incinerator or landfill according to existing federal, provincial and municipal regulations. Organic matter in this product is biodegradable.

Storage Requirements : Keep in original tightly closed containers, in a room below 30° C.

Keep away from sparks and open flames.

SECTION 8 : FIRST AID

Eye : Remove contact lenses. Rinse with plenty of water for several minutes, keeping eyelids open.

Seek immediate medical attention should redness, pain or an irritation develop.

Skin : Rinse with water. Remove spoiled clothes and wash before wearing.

Apply a moisturizing cream if skin is dry. Seek medical attention if the skin is burned.

Inhalation : Bring the person to fresh air. Seek medical attention in case of persistent discomfort.

Ingestion : Give plenty of water. Do no induce vomiting. Seek medical attention.

SECTION 9 : PREPARATION INFORMATION

Date : June 20th 2014.

Prepared by : Agro Research International.

Phone : 407 302-6116

Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While

every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with proper authorities for more information. It is the responsibility of the user to investigate and verify accuracy and validity of information. The buyer and user assumes all responsibility of using and handling the product in accordance with applicable Federal, State and local regulations