



SAFETY DATA SHEET

Grower's Ally Crop Defender 3 Concentrate

1. Product and Company Identification

Product Name: Grower's Ally Crop Defender 3 Concentrate

Manufacturer: Sarasota Green Group
6801 Energy Court
Sarasota, FL 34240
800-550-6259

Telephone Number: 800-550-6259

Emergency Phone Number: Chemtrec (800) 424-9300

Product Use: Insecticide (EPA 25B)

Restriction on Use: None known.

2. Hazards Identification

Classification:

Physical	Health
Flammable Liquid Category 4	Skin Sensitization Category 1

Label Elements:

Warning!



Hazard statement(s)

Combustible liquid.
May cause an allergic skin reaction.

Precautionary statement(s)

-Prevention

Keep away from flames and hot surfaces.
No smoking.
Avoid breathing vapors, mist, or spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear eye protection and protective gloves.

Precautionary statement(s)

-Response

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.
Wash contaminated clothing before reuse.
In case of fire: Use water fog, foam, carbon dioxide or dry chemical to extinguish.

-Storage / Disposal

Store in a well-ventilated place. Keep cool.
Dispose of contents and container in accordance with local, regional and national regulations.

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3. Composition/Information on Ingredients

Component	CAS No.	Amount
Thyme Oil	Proprietary	10-20%
Rosemary Oil	8000-25-7	5-15%
Butyl Lactate	138-22-7	1-5%
Clove Oil	8000-34-8	1-3%
Peppermint Oil	8006-90-4	1-3%

The exact concentration is being withheld as a trade secret.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention if irritation or other symptoms persist.

Skin Contact: Rinse skin thoroughly with water for several minutes. Get medical attention if irritation or rash develops and persists.

Eye Contact: Flush eyes with water while lifting the upper and lower lids for several minutes. Remove contact lenses if present and easy to do, then continue flushing. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting unless directed by a doctor or physician. Rinse mouth with water if person is alert. Get medical attention.

Most important symptoms/effects, acute and delayed: May cause eye irritation and skin irritation. May cause an allergic skin reaction. Inhalation of mists may cause mucous membrane and upper respiratory irritation.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not required with normal use.

5. Firefighting Measures

Suitable (and unsuitable) extinguishing media: Use water fog or spray, foam, carbon dioxide or dry chemical.

Specific hazards arising from the chemical: Combustible liquid. Vapors can burn in contact with ignition sources. Vapors may form explosive mixtures with air in confined areas.

Special protective equipment and precautions for fire-fighters: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Ventilate the area. Remove ignition sources such as open flames, spark producing equipment, pilot lights, etc. Wear personal protective equipment as described in Section 8.

Environmental hazards: Avoid releases into the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Cover with an inert absorbent material and collect into an appropriate container for disposal.

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7. Handling and Storage

Precautions for safe handling: Avoid breathing vapors, spray and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

Empty containers retain product residues that can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated location away from oxidizers and other incompatible materials. Keep containers closed when not in use.

8. Exposure Controls / Personal Protection

CHEMICAL	EXPOSURE LIMIT
Thyme Oil	None Established
Rosemary Oil	None Established
Butyl Lactate	5 ppm TWA ACGIH TLV
Clove Oil	None Established
Peppermint Oil	None Established

Ventilation: Use with adequate general or local exhaust ventilation to keep exposures below exposure limits.

Respiratory Protection: None required with normal. If exposure is excessive of above exposure limits, an approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Gloves: Wear impervious gloves.

Eye Protection: Chemical safety glasses or goggles recommended as needed to avoid eye contact.

Other Protective Equipment/Clothing: Impervious clothing as needed to avoid skin contact and contamination of personal clothing.

9. Physical and Chemical Properties

Appearance: Clear, Particulate Free Liquid

Odor: Characteristic

Odor threshold: Not determined	pH: Not available
Melting point/freezing point: Not determined	Boiling point/ Boiling Range: Not available
Flash point: 144.7 °F (62.6 °C)	Evaporation rate: Not available
Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not determined	UEL: Not determined
Vapor pressure: 0.00005 hPa estimated	Vapor density: Not available
Relative density: 0.913 g/ml	Solubility in Water: Not available
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not available
Decomposition temperature: Not available	Viscosity: Not determined

10. Stability and Reactivity

Reactivity: Not reactive.

Chemical stability: Stable under normal storage and handling conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid heat, sparks and flames.

Incompatible materials: Strong oxidizing agents, acids, and bases.

Hazardous decomposition products: Thermal decomposition will produce oxides of carbon and unknown materials.

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11. Toxicological Information

Inhalation: Inhalation of mist may cause irritation to the nose, throat and upper respiratory tract.

Skin Contact: May cause skin irritation. May cause an allergic skin reaction.

Eye Contact: May cause eye irritation.

Ingestion: Swallowing may cause gastric irritation and upset.

Chronic Hazards: None known.

Carcinogen: Components are not listed as carcinogens or potential carcinogens by IARC, NTP, ACGIH or OSHA.

Mutagenicity: Not classified

Reproductive Toxicity: Not classified.

Acute Toxicity Values:

Thyme Oil	LD50: Oral rat 4700 mg/kg
Rosemary Oil	LD50: Oral rat 5 ml/kg
Butyl Lactate	LD50: Oral rat >5000 mg/kg
	LD50: Skin rabbit >5000 mg/kg
Clove Oil	LD50: Oral rat 1370 mg/kg
	LD50: Skin rabbit >5000 mg/kg
Peppermint Oil	LD50: Oral rat 2426 mg/kg

Respiratory or skin sensitization: Contains thyme oil, Rosemary oil, clove oil, and peppermint oil which may cause an allergic skin reaction.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration Hazard: Not classified

12. Ecological Information

Ecotoxicity: Thyme Oil: LC50 daphnia 0.341 mg/L/48 h.

Rosemary Oil: LL50 Fish 3.4 mg/L/96 h; EL50 daphnia 3.6 mg/L/48 h.

Butyl Lactate: LD50 danio rerio 56-100 mg/L/96 h; EC50 daphnia magna 320-399 mg/L/48 h.

Peppermint oil: LL50 Fish 3.4 mg/L/96 h; EL50 daphnia 2.7 mg/L/48 h.

Persistence and degradability: Butyl Lactate: 69% in 28 days.

Bioaccumulative potential: No data available.

Mobility in soil: No data available

Other adverse effects: None known.

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations.

14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT (non-bulk packages)		Not Regulated			
IMDG		Not Regulated			

Transport in Bulk According to IMO Instruments: Not applicable – product is transported only in packaged form.

Special precautions: None known.

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15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Section 103: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Refer to Section 2 for the OSHA hazard classification.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory or exempt.

California Proposition 65: This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity. For more information go to www.P65Warnings.ca.gov.

16. Other Information

NFPA Rating (NFPA 704):	Health: 2	Fire: 2	Instability: 0
HMIS Rating:	Health: 2	Fire: 2	Physical Hazard: 0

SDS Revision:	New SDS
Supersedes:	None
Date of preparation:	July 27, 2021