

# Safety Data Sheet



Vita (Europe) Limited  
Basingstoke, U.K.

Corresponding to EC Directive 93/112/EC

Date Issued: 24<sup>th</sup> November 2009

Page 1 / 6

Trade Name: VITA FEED GREEN™

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## 1. Identification of the Product and of the Company.

1.1 Product name:

VITA FEED GREEN™ (liquid feed for honeybees)

1.2 Company name:

VITA (EUROPE) LIMITED  
BASINGSTOKE, HAMPSHIRE, UNITED KINGDOM  
Telephone: +44 1256 473175  
Telefax: +44 1256 473179

1.3 Emergency Telephone Number: 44 (0) 1256 473175  
44 (0) 7767 815370  
44 (0) 1256 702748

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## 2. Composition / Information on Ingredients

2.1 Chemical characterisation of the preparation:

Chemical Class: Essential Oils  
Formulation type: Aqueous Solution  
Sector: Perfumes

2.2 Active Ingredients:

Essential oils (walnut tree, thyme, marjoram and wild marjoram) - 24% w/w  
Thymol – 2.1% w/w  
Distilled water – 73.9 % w/w (73.9g in 100.0 g preparation)

2.3 Hazardous component:

Contains: THYMOL (2-isopropyl-5-methylphenol) – 2.1% w/w

Content: 2.1% (w/w) – 2.1g per 100.0g preparation

CAS reg. number: 89-83-8

EC reg. number: 2019448

Hazard warnings: (99-100% concentrate)

R22 Harmful if swallowed.

R34 Causes burns.

S26 In case of contact with eyes, wash with plenty of water and seek medical advice.

S28 In case of contact with skin, wash immediately with plenty of soap suds.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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Vita (Europe) Limited  
Basingstoke, U.K.

Page 2 /6

Trade Name: VITA FEED GREEN™

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### 3. Hazards Identification

- 3.1 Potential hazard  
The active ingredient THYMOL resembles phenol in its systemic actions but it is less toxic.
- 3.2 Eyes  
Irritation of eyes with redness and pain.
- 3.3 Skin  
Irritation of skin with redness and pain.
- 3.4 Inhalation  
Irritation of respiratory tract.
- 3.5 Ingestion  
May cause severe and permanent damages to the digestive tract. Causes gastro intestinal irritation with nausea, vomiting and diarrhoea.
- 3.6 Chronic exposure  
No data found
- 

### 4. First Aid Measures

- 4.1 Eyes:  
Flush eyes thoroughly with running water (for at least 15 minutes) lifting upper and lower lids occasionally. Seek medical advice if irritation persists.
- 4.2 Skin:  
Rinse the skin immediately with copious amounts of water. Immediately remove contaminated clothing. Seek medical advice if symptoms develop.
- 4.3 Inhalation:  
In cases of excessive inhalation of vapour and/or gases, remove the casualty into fresh air. If nausea persists or symptoms of poisoning are apparent, seek medical attention.
- 4.4 Ingestion :  
Clean mouth with water and give large amounts of water (although not to unconscious). Do not induce vomiting.  
Symptoms of poisoning may occur during at least 48 hours following ingestion; therefore, medical advice must be sought.  
Symptoms include irritation of gastric mucosa, abdominal pain, nausea, vomiting, shortness of breath and circulatory collapse.
- 4.5 Chronic Exposure:  
No data found:
- 4.6 Note to Physician:  
No specific antidote, treat symptomatically.
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Page 3 /6

Trade Name: VITA FEED GREEN™

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## 5. Fire Fighting Measures

- 5.1 Extinguishing media:  
Water jet.
  - 5.2 Special protective equipment for fire fighters:  
Wear self-contained breathing apparatus.
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## 6. Accidental Release Measures

Use personal protective clothing. Do not contaminate waters or sewers. Collect the product in containers for safe disposal. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, supplier or the local representative.

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## 7. Handling and Storage

- 7.1 Handling:  
  
Wash after handling. Avoid contact with the eyes, skin and clothing. Avoid digestion and inhalation.
  - 7.2 Storage:  
  
Store between 0 and 30°C (32°F - 86°F).  
Maximum storage temperature: 30°C (86°F)  
Shelf life in original, sealed containers in a temperate climate is 36 months.  
Store in undamaged, properly sealed, original containers protected from light by secondary packaging.  
Do not open until ready to use.  
Keep away from incompatible materials.  
Observe all warnings and precautions for the product.
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## 8. Exposure Controls and Personal Protection

- 8.1 Occupational Toxicity Risk:  
  
Low, when used as directed.
- 8.2 Engineering Controls:  
  
Facilities storing or utilising this material should be equipped with eyewash facility and a safety shower. Use adequate ventilation.

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Vita (Europe) Limited  
Basingstoke, U.K.

Page 4 /6

Trade Name: VITA FEED GREEN™

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## 8.3 Industrial Hygiene:

Keep away from food, drink and animal feedstuffs.  
When using do not eat, drink or smoke.  
Change contaminated clothes immediately.  
After work and before taking breaks, wash your hands.

## 8.4 Personal protective equipment:

Respiratory protection: Not required if the product is handled in the open or properly ventilated in-door places, otherwise respiratory protection is recommended.

Eye protection: Chemical safety goggles or glasses

Hand protection: Gloves

Others: Working clothes

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## 9. Physical and Chemical Properties

- 9.1 Form: aqueous solution
- 9.2 Colour: opal, dark brown liquid
- 9.3 Odour: strong aromatic
- 9.4 Change in physical state:
- Melting point: 49.5°C for THYMOL (100%)
- Boiling point: 233°C for THYMOL (100%)
- 9.5 Flash point: > 100°C
- 9.6 Ignition temperature: not applicable
- 9.7 Explosion limits: not applicable
- 9.8 Density (Specific Gravity): 0.96 – 0.99 g/cm<sup>3</sup> at 20°C
- 9.9 Vapour pressure: 2.25 x 10<sup>3</sup> Pa for THYMOL (100%)
- 9.10 Refraction index: 11.0 – 14.0 at 20°C
- 9.11 pH value (1% aqueous suspension): 6.0 – 8.0 at 20°C
- 9.12 Solubility in / Miscibility with water: 100% (w/w) at 20°C
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## 10. Stability and Reactivity

### 10.1 Stability:

Stable, but avoid any application of heat to the product.

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Page 5 /6

Trade Name: VITA FEED GREEN™

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10.2 Reactivity:  
Non reactive.

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## 11. Toxicological information

11.1 Acute Oral Toxicity:  
LD<sub>50</sub>: 980 mg/kg (rat) (THYMOL 100%)  
LD<sub>50</sub>: 2840 mg/kg (rat) (THYMOL 25%)

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## 12. Ecological Information

12.1 Data on elimination (persistence and degradability):

Information on the active ingredient THYMOL:  
The product is readily biodegradable to OECD criteria.

12.2 Fish toxicity:

Values for the active ingredient THYMOL (100%):

LC<sub>0</sub> (96 hours): 4.2 mg/l

LC<sub>50</sub> (96 hours): 5.0 mg/l (approximately)  
(*Brachydanio rerio*)

12.3 Daphnia toxicity:

Values for the active ingredient THYMOL (100%): LC<sub>50</sub> (48 hours): 3.2 mg/l  
(water flea (*Daphnia magna*))

12.4 Bacterial toxicity (growth inhibition):

Values for the active ingredient THYMOL (100%): EC<sub>50</sub>: 40mg/l  
Method: OECD 209 / ISO 8192 Activated sludge

12.5 Behaviour in sewage plant:

Information on the active ingredient THYMOL:  
When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

12.6 Further information:

Information on the active ingredient THYMOL:  
Do not discharge the product unmonitored into the environment.

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Page 6 /6

Trade Name: VITA FEED GREEN™

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## 13. Disposal Considerations

The product must be disposed of according to the applicable local regulations in force, if no recycling is possible. Packaging that cannot be cleaned should be disposed of as for the product.

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## 14. Transportation Information

Regulations	Class	UN-No.	PGr.
RID/ADR:	not classified		
ICAO/IATA-DGR:	not classified		
GGVSee/IMDG-Code:	not classified		

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## 15. Regulatory Information

R36/38	Irritating to eyes and skin.
S2	Keep out of the reach of children.
S13	Keep away from food, drink, and animal feedstuffs.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of soap-suds.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

Assessment by Vita (Europe) Limited in accordance with EC directives on dangerous substances:

The product does not require a hazard warning label in accordance with EC directives.

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## 16. Other Information

Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should, therefore, not be construed as a warranty with regard to the product specific properties.

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