

Material Safety Data Sheet

According to 91/155/EEC

1 - Identification of preparation and of company

Trade Name and Synonyms: THYMOVAR®
Formula: Carrier wafers, each wafer containing 15 g of thymol
Product Use: Treatment of varroatosis of the honey bee due to Varroa destructor
Emergency Telephone No: +41 62 917 51 10
Manufacturer's Name: Andermatt BioVet AG
Street Address: Stahlermatten 6
City, State, Zip Code: CH - 6146 Grossdietwil
 Switzerland

2 - Composition and Information on Hazard Ingredients

(All hazardous materials over 1% and all carcinogenic materials over 0.1%)

Hazardous Ingredients:	CAS#	EINECS #	Concentration
Thymol	89-83-8	201-944-8	15 g per wafer

3 - Hazards identification

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation.

4 - First aid measures

After Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.
After Eye Contact: Flush eyes with plenty of water. Call a physician if irritation persists.
After Skin Contact: Wash with plenty of soap and water. Get medical attention.
After Ingestion: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

5 - Firefighting

Suitable extinguishing media:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment (hazardous for water).

Protective equipment: No special measures required.

6 - Accidental release measures

Personal precautions: Wear protective gloves (rubber or plastic).
Methods for cleaning: Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

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7 - Handling and Storage

Handling:	Avoid contact with skin. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling.
Storage:	Store in the original packaging material (sealed bags) below 30 °C. No incompatible materials known, no specific design for storage rooms needed.

8 - Exposure Controls/Personal Protection

Engineering Measures:	Not required
General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all spoiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Personal Protective Equipment:	
Protection of hands:	Protective gloves (plastic or rubber)
Breathing equipment:	Not required
Protection of eyes:	Not required

9 - Physical and Chemical Properties

Thymovar contains 15 gram Thymol

Physical State:	Solid
Appearance and Odour:	Yellow wafers with aromatic odour

Thymol

Physical State:	Solid with crystals
Appearance and Odour:	Colourless, characteristic odour
Boiling Point:	233°C
Melting Point:	51.5°C
Flammability:	Product is not flammable
Flash Point:	100°C
Explosive Properties:	Product does not present an explosion hazard
Vapour Pressure:	0.04 mmHg (at 20°C); 1mm Hg (at 64°C)
Density:	0.9699 g/cm ³ (at 20°C)
Solubility in Water:	1 g/l at 20°C
Oxtanol/Water Partition:	Log POW=3.30

10 - Stability and Reactivity

Stability:	Stable
Stability Conditions:	Below 25 °C
Conditions to Avoid:	Heat , flames, ignition sources
Materials to Avoid:	No dangerous reactions known
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide may form when heated to decomposition

11 - Toxicological Information

Each Thymovar wafer contains 15 gram of thymol, acute toxicity of pure thymol

Thymol:

LD 50 rat oral:	980 mg/kg
LD 50 mouse oral	1800 mg/kg
LD 50 guinea pig oral	880 mg/kg
LD 50 mouse intravenous	100 mg/kg
LD 50 Mouse subcutaneous	243 mg/kg

Effects of Acute Overexposure to Product:

Inhalation:	Caustic effect
Eye Contact:	Strong caustic effect
Skin Contact:	Caustic effect on skin and mucous membranes
Ingestion:	Swallowing will lead to a strong caustic effect on mouth and throat. Danger of perforation of oesophagus and stomach.

Sensitisation to Product: In a patch test ¼ of persons reacted positive.

Effects of Chronic Overexposure to Product:

Thymol is not classified as mutagen, carcinogen or reproductiv (CMRT) by the EC

12 - Ecological Information

Thymovar:

No hazard known.

Thymol:

Trial	Time	Value
EC 50 Daphina magna	96 h	1,7-3,2 mg/l
LC 50 Pimephales promelas	96 h	3.2-4.2 mg/l

Water hazard class 2 (German Regulation): hazardous for water

13 - Disposal Considerations

For Commercial Use:

Unused Thymovar and wastes resulting from the use of this product may be disposed of in a sanitary landfill or by incineration; or, if allowed by local authorities, by burning. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by local authorities, by burning. If burned, stay out of smoke.

For Homeowner Use:

Securely wrap original container in several layers of newspapers and discard in trash.

14 - Transport Information

No special precautions needed.

15 - Regulatory Information

Thymol:

Hazard description: C Corrosive
N Dangerous for the environment

Information pertaining to particular dangers for man and environment:

R 22	Harmful if swallowed
R 34	Causes burns
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

16 - Other Information

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognised technical sources. While the information above is believed to be true and accurate the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Andermatt BioVet's control and therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

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