



# SAFETY DATA SHEET

Creation Date 25-May-2010

Revision Date 24-Nov-2010

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Description:**

Thymol

**Cat No.**

150330000; 150330025; 150330050; 150331000; 150335000

**Synonyms**

5-Methyl-2-(1-methylethyl)phenol

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use**

Laboratory chemicals

**Uses advised against**

No Information available

### Details of the supplier of the safety data sheet

#### **Company**

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

#### **E-mail address**

begel.sdsdesk@thermofisher.com

#### **Emergency Telephone Number**

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### **REGULATION (EC) No 1272/2008**

Acute oral toxicity	Category 4
Skin Corrosion / irritation	Category 1 B
Chronic aquatic toxicity	Category 2

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

**Symbol(s)**

C - Corrosive

N - Dangerous for the environment

**R -phrase(s)**

R22 - Harmful if swallowed

R34 - Causes burns

**Risk Combination Phrases**

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## 2. HAZARDS IDENTIFICATION

### Label Elements



### Signal Word

**Danger**

### Hazard Statements

H411 - Toxic to aquatic life with long lasting effects  
 H302 - Harmful if swallowed  
 H314 - Causes severe skin burns and eye damage

### Precautionary Statements - EU (§28, 1272/2008)

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P280 - Wear eye protection/face protection  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P273 - Avoid release to the environment  
 P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

### Other Hazards

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Thymol 89-83-8	EEC No. 201- 944-8	>95	89-83-8	Xn;R22 C;R34 N;R51-53	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Chronic 2 (H411)	-

For the full text of the R phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes  
 Immediate medical attention is required

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes  
 Immediate medical attention is required

#### Ingestion

Do not induce vomiting  
 Call a physician or Poison Control Center immediately

<b>Inhalation</b>	Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device Immediate medical attention is required
<b>Notes to Physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### Special hazards arising from the substance or mixture

Fine dust dispersed in air may ignite

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Use personal protective equipment Keep people away from and upwind of spill/leak Evacuate personnel to safe areas Avoid dust formation

### Environmental precautions

Should not be released into the environment

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal Avoid dust formation

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Use only under a chemical fume hood Wear personal protective equipment Do not get in eyes, on skin, or on clothing Avoid dust formation Do not breathe vapors/dust Do not ingest

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place Corrosives area

### Specific End Uses

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Derived No Effect Level (DNEL)**

No information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Predicted No Effect Concentration (PNEC)</b>	No information available.
<b>Exposure controls</b>	
<b>Engineering Measures</b>	Use only under a chemical fume hood Ensure that eyewash stations and safety showers are close to the workstation location
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Goggles
<b>Hand Protection</b>	Protective gloves
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls</b>	No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid
<b>Appearance</b>	White
<b>odor</b>	Characteristic
<b>pH</b>	5-7 0.8 g/L (20°C)
<b>Vapor Pressure</b>	2.5 mbar @ 50 °C
<b>Vapor Density</b>	5.2
<b>Viscosity</b>	4.3 mm <sup>2</sup> /s at 50 °C (kinematic)
<b>Boiling Point/Range</b>	232°C / 449.6°F
<b>Melting Point/Range</b>	48 - 52°C / 118.4 - 125.6°F
<b>Flash Point</b>	102°C / 215.6°F
<b>Lower</b>	1.4 Vol%
<b>Upper</b>	7.7 Vol%
<b>Water Solubility</b>	0.1% (20°C)
<b>Specific Gravity</b>	0.960
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>14</sub> O
<b>Molecular Weight</b>	150.22

## 10. STABILITY AND REACTIVITY

### Reactivity

#### Chemical Stability

Stable under normal conditions.

#### Possibility of Hazardous Reactions

##### Hazardous Polymerization

No information available.

##### Hazardous Reactions .

None under normal processing..

#### Conditions to Avoid

Incompatible products, Excess heat, Avoid dust formation.

#### Incompatible Materials

Strong oxidizing agents, Strong bases.

#### Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

##### **Component Information**

##### **Component**

Thymol

	LD50 Oral	LD50 Dermal	LC50 Inhalation
	980 mg/kg ( Rat )	2000 mg/kg ( Rat )	

#### Chronic Toxicity

##### **Carcinogenicity**

There are no known carcinogenic chemicals in this product

##### **Sensitization**

No information available.

##### **Mutagenic Effects**

Not mutagenic in AMES Test

##### **Reproductive Effects**

No information available.

##### **Developmental Effects**

No information available.

##### **Target Organs**

Skin Respiratory system Eyes Gastrointestinal tract (GI)

##### **Other Adverse Effects**

See actual entry in RTECS for complete information

##### **Endocrine Disruptor Information**

None known

## 12. ECOLOGICAL INFORMATION

#### Toxicity

##### **Ecotoxicity effects**

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Thymol		LC50: 3.2-4.2 mg/L/96h (Pimephales promelas)		EC50: 1.7-3.2 mg/L/96h

#### Persistence and degradability

Readily biodegradable

#### Bioaccumulative potential

No information available.

Component	log Pow
Thymol	3.3

#### Mobility in soil

#### Results of PBT and vPvB assessment

##### **Other adverse effects**

No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

### 14. TRANSPORT INFORMATION

**IMDG/IMO**

**UN-No** UN2430  
**Hazard Class** 8  
**Packing Group** III  
**Proper Shipping Name** Alkylphenols, solid, n.o.s

**ADR**

**UN-No** UN2430  
**Hazard Class** 8  
**Packing Group** III  
**Proper Shipping Name** Alkylphenols, solid, n.o.s

**IATA**

**UN-No** UN2430  
**Hazard Class** 8  
**Packing Group** III  
**Proper Shipping Name** Alkylphenols, solid, n.o.s

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Thymol	201-944-8	-		X	X	-	X	X	X	X	KE-24420 X

**Legend****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory Lists**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**CHINA** - China Inventory of Existing Chemical Substances**AICS** - Inventory of Chemical Substances**KECL** - Existing and Evaluated Chemical Substances**Chemical Safety Assessment**

**16. OTHER INFORMATION****Text of R phrases mentioned in Section 2-3**

R22 - Harmful if swallowed

R34 - Causes burns

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Revision Date** 24-Nov-2010**Revision Summary** Not applicable**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet**