

## 1. Identification of the substance/preparation and of the company/undertaking

### *Identification of the product*

Thymol

### *Manufacturer/supplier identification*

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## 2. Hazards identification

### **Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Chronic aquatic toxicity (Category 2), H411

### **Label elements**

Pictogram

Signal word Danger

### Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

### Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

*M*: 150.22 g/mol

Molecular formula: C<sub>10</sub>H<sub>14</sub>O

#### 4. First aid measures

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. Fire-fighting measures

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6. Accidental release measures

##### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

##### **Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

##### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

#### 8. Exposure controls/personal protection

##### **Appropriate engineering controls**

General industrial hygiene practice.

##### **Personal protective equipment**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use

in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains. Discharge into the environment must be avoided.

**9. Physical and chemical properties**

**Form:** crystals

**Colour:** colorless

**Odour:** not available

**pH value:** not available

**Melting point:** not available

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** 101 °C - closed cup

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** not available

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

**10. Stability and reactivity****Chemical stability**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

Other decomposition products - no data available

**11. Toxicological information****Acute toxicity**

LD50 Oral - Rat - male and female - 980 mg/kg  
LD50 Dermal - Rat - male and female - > 2.000 mg/kg

**Skin corrosion/irritation**

Skin - Rabbit  
Result: Causes burns. - 4 h

**Serious eye damage/eye irritation**

Eyes - Rabbit  
Result: Severe eye irritation - 24 h

**Respiratory or skin sensitization**

Maximisation Test - Guinea pig  
Does not cause skin sensitisation.

**Germ cell mutagenicity**

Hamster  
Lungs  
Result: negative

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**12. Ecological information****Toxicity**

Toxicity to fish LC50 - *Oryzias latipes* - 4,7 mg/l - 96,0 h  
Toxicity to daphnia  
and other aquatic invertebrates Immobilization LC50 - *Daphnia magna* (Water flea) - 4,5 mg/l - 48 h  
Toxicity to algae Growth inhibition EC50 - *Pseudokirchneriella subcapitata* (green algae) - 14 mg/l - 72 h

**Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d  
Result: 83 % - Readily biodegradable

**Bioaccumulative potential**

Bioaccumulation *Oryzias latipes* - 1 µg/l  
Bioconcentration factor (BCF): 48

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

Toxic to aquatic life with long lasting effects.

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

