

**Thymol (Crystal) CAS
No 89-83-8**

**MATERIAL SAFETY DATA SHEET
SDS/MSDS**

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifiers

Product name : **Thymol (Crystal)**

CAS-No. : 89-83-8

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified

uses: Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : **Rawpharma Biz Private Limited.**

18/A, Nirant Park House,
Opp. Sun N Step Club, Sola Road,
Ahmedabad, Gujarat

Telephone: 98795 22397

Email: info@rawpharmabiz.com

1.4 Emergency telephone number

Emergency Phone # : 8320310672 (10:00am – 05:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification

according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 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)

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

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 or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients 3.1 Substances

Synonyms	:	5-Methyl-2-isopropylphenol 5-Methyl-2-(1methylethyl)phenol 2-Isopropyl-5-methylphenol
Formula	:	C10H14O
Molecular weight	:	150,22 g/mol
CAS-No.	:	89-83-8
EC-No.	:	201-944-8
Index-No.	:	604-032-00-1

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Thymol			
CAS-No.	89-83-8	Acute Tox. 4; Skin Corr. 1B;	<= 100 %
EC-No.	201-944-8	Aquatic Chronic 2; H302,	
Index-No.	604-032-00-1	H314, H411	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures General

advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 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.

6.3 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.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 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. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Components with workplace control parameters 8.2 Exposure controls Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment Eye/face protection

Face shield and safety glasses 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.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

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

SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties

- a) Appearance Form: crystalline Color: colorless
- b) Odor No data available
- c) Odor Threshold No data available
- d) pH 7 at 1 g/l
- e) Melting point/freezing point Melting point/range: 48 - 51 °C - lit.
- f) Initial boiling point and boiling range 232 °C - lit.
- g) Flash point 110 °C - closed cup
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapor pressure 1 hPa at 64 °C
- l) Vapor density No data available
- m) Relative density 0,965 g/cm³ at 25 °C
- n) Water solubility 0,8 g/l at 20 - 25 °C
- o) Partition coefficient: log Pow: 3,3 noctanol/water
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available

- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

9.2 Other safety information No data available

SECTION 10: Stability and reactivity 10.1 Reactivity No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No data available **10.4 Conditions to avoid** No data available **10.5 Incompatible materials**

Strong oxidizing agents, Strong bases

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information 11.1 Information on toxicological effects 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

(OECD Test Guideline 404) **Serious eye damage/eye**

irritation Eyes - Rabbit

Result: Severe eye irritation - 24 h

(OECD Test Guideline 405)

Respiratory or skin sensitization

- Guinea pig

Result: Does not cause skin sensitization.

Germ cell mutagenicity

Hamster

Lungs

Result: negative

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Mouse - male and female

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.

Reproductive toxicity

Reproductive toxicity - Rat - Subcutaneous Maternal Effects:

Uterus, cervix, vagina.

Specific target organ toxicity - single exposure

No data available **Specific target organ toxicity**

- **repeated exposure** No data available

Aspiration hazard No data available

Additional Information

Repeated dose Rat - male and female - Oral - NOAEL : 8 mg/kg toxicity

RTECS: XP2275000

Cough, Shortness of breath, Headache, Nausea, Vomiting

SECTION 12: Ecological information 12.1 Toxicity

Toxicity to fish LC50 - *Oryzias latipes* - 4,7 mg/l - 96,0 h
(OECD Test Guideline 203)

Toxicity to daphnia Immobilization LC50 - *Daphnia magna* (Water flea) - 4,5 mg/l - 48 h (OECD and other aquatic Test Guideline 202)

invertebrates Toxicity

to algae Growth inhibition EC50 - *Pseudokirchneriella subcapitata* (green algae) - 14 mg/l - 72 h
(OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 83 % - Readily biodegradable
(OECD Test Guideline 302B)

12.3 Bioaccumulative potential

Bioaccumulation *Oryzias latipes* - 1 µg/l

Bioconcentration factor (BCF): 48 (OECD Test Guideline 305C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 2430

IMDG: 2430

IATA:

14.2 UN proper shipping name

2430

ADR/RID: ALKYLPHENOLS, SOLID, N.O.S. IMDG:
ALKYLPHENOLS, SOLID, N.O.S. (Thymol) IATA:
Alkylphenols, solid, n.o.s.

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H411

Toxic to aquatic life with long lasting effects.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product about appropriate safety precautions. It does not represent any guarantee of the properties of the product. Rawpharma Biz and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.rawpharmabiz.com for additional terms and conditions of sale.