

SAFETY DATA SHEET

Preparation Date: 04/17/2015

Revision Date: 10/31/2018

Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: T1050
Product Name: THYMOL, CRYSTAL, NF

Other means of identification

Synonyms: 1-Hydroxy-5-methyl-2-isopropylbenzene
 1-Methyl-3-hydroxy-4-isopropylbenzene
 2-Hydroxy-1-isopropyl-4-methylbenzene
 2-Isopropyl-5-methylphenol
 3-Hydroxy-1-methyl-4-isopropylbenzene
 3-Hydroxy-p-cymene
 3-Methyl-6-isopropylphenol
 3-p-Cymenol
 5-Methyl-2-(1-methylethyl)phenol
 5-Methyl-2-isopropyl-1-phenol
 5-Methyl-2-isopropylphenol
 6-Isopropyl-3-methylphenol
 6-Isopropyl-m-cresol
 Cymophenol, alpha-
 Isopropyl cresol
 Phenol, 2-isopropyl-5-methyl-
 Phenol, 5-methyl-2-(1-methylethyl)-
 Thyme camphor
 Thymic acid
 Thymol (natural)
 m-Cresol, 6-isopropyl-
 m-Thymol
 p-Cymen-3-ol
 p-Cymene, 3-hydroxy-
CAS #: 89-83-8
RTECS # XP2275000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Laboratory reagent. Preservative. Antioxidant. For destroying mold; mold and mildew preventative; preserving documents, art objects, and urine; stabilizer (antioxidant) for Trichloroethylene, Haloethane. Flavoring ingredient.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)

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Contact Person:

Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

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

Immediately call a POISON CENTER or doctor/physician.

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

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

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Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Thymol	89-83-8	100

4. FIRST AID MEASURES**First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact:

Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed**Symptoms**

Severe skin and eye irritation or burns
 May cause abdominal pain, nausea, vomiting, diarrhea
 Causes digestive (gastrointestinal) tract irritation
 May cause gastrointestinal (digestive) tract burns
 May cause central nervous system effects
 May affect the cardiovascular system
 May affect the liver
 It may affect the kidneys
 Irritating to respiratory system
 May cause chemical burns to the respiratory tract

Indication of any immediate medical attention and special treatment needed**Notes to Physician:**

Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media:

Use water spray, mist, alcohol-resistant foam, Dry chemical or Carbon dioxide (CO2).

Unsuitable Extinguishing Media:

No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:

Carbon Monoxide, Carbon Dioxide.

Specific hazards:

May be combustible at high temperatures. When heated to decomposition it emits toxic fumes.

Special Protective Actions for Firefighters

Specific Methods:

No information available.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid breathing dust. Remove all sources of ignition.

Environmental precautions

Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.

Methods for cleaning up

Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Ensure adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Remove all sources of ignition.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest. Keep away from heat and sources of ignition. Protect from light. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

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Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

- Oxidizing agents
- Alkalis
- Acetanilide
- Antipyrine
- camphor
- Monobromated
- Chlorohydrate
- Chloral hydrate
- menthol
- Quinine sulfate
- Salol
- Urethane
- Spirit nitrous ether

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Thymol	89-83-8	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Thymol	89-83-8	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Thymol	89-83-8	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Long sleeved clothing
Chemical resistant apron
Gloves

Stability: Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Exposure to sunlight. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents
Alkalis
Acetanilide
Antipyrine
camphor
Monobromated
Chlorohydrate
Chloral hydrate
menthol
Quinine sulfate
Salol
Urethane
Spirit nitrous ether

Hazardous decomposition products: Carbon oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Thymol
CAS-No. 89-83-8

LD50/oral/rat = 980 mg/kg Oral LD50 Rat
LD50/oral/mouse = 640 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = > 2000 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 980 mg/kg

LD50/oral/mouse =

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Value - Acute Tox Oral = 640 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = > 2000 mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

- Skin Contact:** Causes skin irritation. Causes skin burns. Effects may vary from mild irritation to severe destruction of tissue depending on the intensity and duration of the exposure. It may be absorbed through the skin.
- Eye Contact:** Causes severe eye irritation and possible burns. Effects can vary from mild irritation to chemical conjunctivitis and corneal damage depending on the intensity and duration of exposure.
- Inhalation** Causes respiratory tract irritation with possible chemical burns. Aspiration may lead to pulmonary edema.
- Ingestion** Harmful if swallowed. Causes gastrointestinal tract irritation with abdominal pain, nausea, vomiting, diarrhea and possible burns. It may affect behavior/central nervous system/peripheral nervous system (somnolence, headache, weakness, fatigue, lethargy, nervousness, agitation, dizziness, talkativeness, convulsions, spastic paralysis, sleepiness, insomnia, ataxia, coma), respiration (dyspnea, respiratory stimulation, tachypnea), cardiovascular system (hypotension, dysrhythmias). It may cause kidney and liver damage, pallor, profuse sweating.
- Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- Chronic Toxicity** Skin: It may be absorbed by the skin and cause systemic effects similar to acute ingestion. Prolonged or repeated ingestion may have symptoms similar to that of acute ingestion.
- Sensitization:** No information available.
- Mutagenic Effects:** May affect genetic material
Experiments with human lymphocytes have shown mutagenic effects
Cytogenic analysis (hamster lung)
Sister Chromatid Exchange (hamster embryo)
- Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
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						Carcinogenic Substances	Carcinogenic Substances
Thymol	89-83-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects:

May cause adverse reproductive effects based on animal data

Developmental Effects:

No information available

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Target Organs:

Mucous membrane. Kidneys. Liver. Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

Aquatic environment.

Thymol - 89-83-8

Freshwater Fish Species Data:

5 mg/L LC50 Brachydanio rerio 96 h static 1 3.2 mg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data:

1.7-3.2 mg/L EC50 Daphnia (daphnia) 96 h

Persistence and degradability:

No information available

Bioaccumulative potential:

No information available.

Mobility:

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Thymol	89-83-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

Product code: T1050

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UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 153
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP3, T1, TP33
Symbol(s): No information available
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III

TDG (Canada)

UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III

ADR

UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-A
Special Provisions: 223
Description: UN2430, Alkylphenols, solid, n.o.s. (THYMOL), 8, III, Marine pollutant

RID

UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III
Special Provisions: A3

IATA

Product code: T1050

Product name: THYMOL, CRYSTAL,
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UN-No: UN2430
Proper Shipping Name: Alkylphenols, solid, n.o.s.
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 8L
Special Provisions No information available
Description: UN2430, Alkylphenols, solid, n.o.s., 8, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Thymol</i>	89-83-8	PresentACTIV E	Present KE-24420	Present	Present (4)-57,(3)-521	Present	Present	Present 201-944-8

U.S. Regulations

Thymol
FDA - Direct Food Additives 21 CFR 172.515
FDA - 21 CFR - Total Food Additives 172.515, 175.105
 - List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Thymol</i>	89-83-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Thymol</i>	89-83-8	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Thymol</i>	89-83-8	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Thymol	89-83-8	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Thymol	89-83-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Thymol	89-83-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Thymol	89-83-8	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.604-032-00-1

EU - CLP (1272/2008)

R-phrases(s)

R34 - Causes burns.
 R22 - Harmful if swallowed.
 R51 - Toxic to aquatic organisms.
 R53 - May cause long-term adverse effects in the aquatic environment.

S -phrase(s)

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 water
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
 S 1/2 - Keep locked up and out of the reach of children.
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Thymol	89-83-8	Xn; R22 C; R34 N; R51-53	No information	S1/2 S26 S28 S36/37/39 S45 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive.

Xn - Harmful.

N - Dangerous for the environment.



16. OTHER INFORMATION

Preparation Date: 04/17/2015
Revision Date: 10/31/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet