

SAFETY DATA SHEET

Creation Date 25-May-2010

Revision Date 14-Feb-2020

Revision Number 2

	1. Identification	
Product Name	Thymol	
Cat No. :	A14563	
CAS-No	89-83-8	
Synonyms	5-Methyl-2-(1-methylethyl)phenol	
Recommended Use	Laboratory chemicals.	
Uses advised against	Food, drug, pesticide or biocidal product use.	
Details of the supplier of the s	afety data sheet	
Company		
Alfa Aesar		
Thermo Fisher Scientific Chemic	als, Inc.	
30 Bond Street		
Ward Hill, MA 01835-8099		
Tel: 800-343-0660		

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

Fax: 800-322-4757 Email: tech@alfa.com

www.alfa.com

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

Acute oral toxicity	Category 4	
Skin Corrosion/Irritation	Category 1 B	
Serious Eye Damage/Eye Irritation	Category 1	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Respiratory system.		
Combustible dust	Yes	

Label Elements

Signal Word Danger

Hazard Statements

May form combustible dust concentrations in air Harmful if swallowed Causes severe skin burns and eye damage May cause respiratory irritation



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

Use only outdoors or in a well-ventilated area

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

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

Wash contaminated clothing before reuse

Eyes

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

Rinse mouth

Do NOT induce vomiting

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Thymol	89-83-8	>95

4. 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.			
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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. Call a physician or poison control center immediately.			

Most important symptoms and effects Notes to Physician	Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	102 °C / 215.6 °F
Method -	No information available
Autoignition Temperature	285 °C / 545 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available
Specific Hazards Arising from the 0 Fine dust dispersed in air may ignite. Keep product and empty container aw	Corrosive material. Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxi Protective Equipment and Precauti As in any fire, wear self-contained bre	

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

NFPA Health 3	Flammability 1	Instability 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions	adequate ventilation. Avoid	d dust formation. Do not get in			
Environmental Precautions	Do not flush into surface w	ater or sanitary sewer system.			
Methods for Containment and Cl Up	ean Remove all sources of ign Avoid dust formation.	tion. Sweep up and shovel into	o suitable containers for disposal.		
	7. Handling	and storage			
Handling	Use only under a chemical fume hood. Wear personal protective equipment/face protection Do not get in eyes, on skin, or on clothing. Avoid dust formation. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.				
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.				
8.	Exposure controls	/ personal protecti	on		
Exposure Guidelines	•	ain any hazardous materials w gion specific regulatory bodies	· ·		

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties					
Physical State	ate Solid				
Appearance	White				
Odor	Characteristic				
Odor Threshold	No information available				
рН	5-7 0.8 g/L (20°C)				
Melting Point/Range	48 - 52 °C / 118.4 - 125.6 °F				
Boiling Point/Range	232 °C / 449.6 °F				
Flash Point	102 °C / 215.6 °F				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	2.5 mbar @ 50 °C				
Vapor Density	Not applicable				
Specific Gravity	-				
Solubility	No information available				
Partition coefficient; n-octanol/water	-octanol/water No data available				
Autoignition Temperature					
Decomposition Temperature	rature No information available				
Viscosity	Not applicable				
Molecular Formula	C10 H14 O				
Molecular Weight	150.22				
	10. Stability and repetivity				

10.	Stability	/ and	reactivity

Reactive Hazard None known, based on information available		
Stability	Stable under normal conditions.	
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 (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	

Acute Toxicity

Product Information

Component Informa	ation						
Componer	nt	LD50 Oral				LC50 Inhalation	
Thymol LD50 = 980 mg/kg (Rat) LD50 > 2000 mg/kg (Rat) Not listed					ot listed		
Toxicologically Syn	ergistic	No information ava	ailable				
Products	0						
Delayed and immed	liate effects	as well as chronic effe	cts from short an	d long-term expo	<u>sure</u>		
Irritation Causes burns by all exposure routes							
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	D IARC	NTP	ACGIH	OSHA	Mexico	
Thymol	89-83-8	3 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Not mutagenic in A	AMES Test				
Reproductive Effects No information available.							
Developmental Effe	Developmental Effects No information available.						
Teratogenicity	Teratogenicity No information available.						
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known							
Aspiration hazard	Aspiration hazard No information available						
Symptoms / effects delayed	s,both acute	and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation			nd danger of		
Endocrine Disruptor Information No information available							
Other Adverse Effects See actual entry in RTECS for complete information.							

12. Ecological information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Thymol	Not listed	LC50: 3.2-4.2 mg/L/96h	Not listed	EC50: 1.7-3.2 mg/L/96h
		(Pimephales promelas)		
Persistence and Degradal	pility Persistence i	s unlikely		
Bioaccumulation/ Accumulation No information available.				
Mobility . Is not likely mobile in the environment due its low water solubility.			1.	
		log Pow		

Component	log Pow
Thymol	3.3
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	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information			
DOT			
UN-No	UN2430		
Proper Shipping Name	ALKYLPHENOLS, SOLID, N.O.S.		
Hazard Class	8		
Packing Group			
<u>TDG</u>			
UN-No	UN2430		
Proper Shipping Name	ALKYLPHENOLS, SOLID, N.O.S.		
Hazard Class	8		
Packing Group	III		
UN-No Drange Chinging Name	UN2430		
Proper Shipping Name Hazard Class	Alkylphenols, solid, n.o.s		
	8 		
Packing Group IMDG/IMO	III		
UN-No	UN2430		
Proper Shipping Name	Alkylphenols, solid, n.o.s		
Hazard Class	8		
Packing Group			
	15. Regulatory information		

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Thymol	89-83-8	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Thymol	89-83-8	Х	-	201-944-8	Х	Х	Х	Х	KE-24420

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant U.S. Department of Homeland	N N N This product does not contain any DHS chemicals.
Security Other International Regulations	
Mexico - Grade	No information available

 16. Other information

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 Health, Safety and Environmental Department

 Email: tech@alfa.com
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Disclaimer

Revision Summary

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

SDS authoring systems update, replaces ChemGes SDS No. 89-83-8/2.

End of SDS