



Material Safety Data Sheet

Product Name: Thymol Iodide

Section 1-Product Information

Formula : C₂₀H₂₄I₂O₂
Molecular weight : 550.23
CAS No : 552-22-7
HS Code : 28276090
Synonym's : Iodothymol; Dithymol Diiodide

Section 2-Composition, Information on Ingredients

Ingredient : Thymol Iodide
Hazardous : Yes
Percent : 90-100%
CAS No : 552-22-7

Section 3-Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating : 3 - Severe (Life)
Flammability Rating : 1 - Slight
Reactivity Rating : 1 - Slight
Contact Rating : 3 - Severe
Lab Protective Equip : GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;
PROPER GLOVES
Storage Color Code : Green (General Storage)

Potential Health Effects

Inhalation: Because of iodine decomposition product, can cause burning of nasal passages, throat and lungs.

Ingestion: Resembles phenol in its systemic actions but less toxic because it is less soluble. Produces gastric pain, nausea, vomiting, hyperactivity, and possibly convulsions, cardiac and respiratory collapse.

Skin Contact: May cause irritation. Iodine decomposition products can cause serious burns.

Eye Contact: May cause severe tearing, burns of eyelids and eyeball from iodine decomposition products.

Chronic Exposure: May cause "iodism" on prolonged absorption. Symptoms are skin rash, headache and skin eruptions in severe cases.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance. Oils and alcohol promote absorption.



Section 4-First Aid Measure

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5-Fire Fighting Procedure

Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6-Accidental Release Measure

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills:** Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7-Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect from physical damage. Separate from oxidizing materials. Store in the dark. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8-Exposure control/Personal protection

Airborne Exposure Limits:

-OSHA Permissible Exposure Limit (PEL):

0.1 ppm Ceiling for iodine

-ACGIH Threshold Limit Value (TLV):

0.01 ppm (TWA) inhalable fraction and vapor for iodine and iodides.

0.1 ppm (STEL) vapor and aerosol for iodine.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general



work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134).

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9-Physical Chemical Properties

Appearance	: Reddish-brown or yellow bulky powder.
Odor	: Slight odor of iodine.
Solubility	: Insoluble in water, soluble in chloroform, ether.
Density	: No information found.
pH	: No information found.
% Volatiles by volume @ 21C (70F):	0
Boiling Point	: Decomposes.
Melting Point	: > 100C (> 212F)
Vapor Density (Air=1)	: No information found.
Vapor Pressure (mm Hg)	: No information found.
Evaporation Rate (BuAc=1)	: No information found.

Section 10-Stability and Reactivity

Stability: Heat will contribute to instability. Discolors on exposure to light.
Hazardous Decomposition Products: Burning may produce toxic iodine vapors.
Hazardous Polymerization: Will not occur.
Incompatibilities: High temperatures, oxidizing agents.
Conditions to Avoid: Heat, flame, sources of ignition, light and incompatibles.

Section 11-Toxicity Information

Data for Thymol (CAS#89-83-8): Oral rat LD50: 980 mg/kg. Investigated as a mutagen, reproductive effector.

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Thymol Iodide (552-22-7)	No	No	None



Section 12-Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

Section 13-Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14-Transport Information

Not regulated.

Section 15-Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Thymol Iodide (552-22-7)	Yes	Yes	No	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada-- DSL	NDSL	Phil.
Thymol Iodide (552-22-7)	No	Yes	No	No

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302- RQ TPQ		-----SARA 313----- List Chemical Catg.	
Thymol Iodide (552-22-7)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA- 261.33	-TSCA- 8(d)
Thymol Iodide (552-22-7)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: No (Pure / Solid)



Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Section 16-Additional Information

NFPA Ratings: Health: **2** Flammability: **1** Reactivity: **1**

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED OR INHALED.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 8.

Disclaimer:

Pantheon Fze provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, PANTHEON FZE WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.