

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 05-Jul-2024

**Revision Number** 1

1. Identification	
Product identifier	
Product Name	α,β-Thujone (>90%)
Other means of identification	
Product Code(s)	TRC-T405805-50MG
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	This product is for research and development only
Restrictions on use	Not to be used for human or animal consumption
Details of the supplier of the safety	data sheet
Supplier Address	
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA	
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com	
Web : Igcstandards.com	
E-mail	sds-request@lgcgroup.com
Emergency telephone number	
Emergency Telephone For Hazardous Materials or Dangerous Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877	
2. Hazard(s) identification	



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OSHA HCS2012

### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

#### **Classification**

Classified according to OSHA.

Acute toxicity - Oral	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Danger

#### Hazard statements

Classified according to OSHA. Toxic if swallowed

May cause damage to organs through prolonged or repeated exposure



#### **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

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

### Precautionary Statements - Storage

Store locked up

#### **Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

### 3. Composition/information on ingredients



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

#### Substance

Chemical name	CAS No.	Weight-%	Trade secret
(Alpha,beta)-Thujone	76231-76-0	100	*

4. First-aid measures			
Description of first aid measures			
General advice	Show this safety data sheet to the doctor in attendance.		
Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash skin with soap and water.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.		
Most important symptoms and effects, both acute and delayed			
Symptoms	No information available.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		
5. Fire-fighting measures			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the		
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the	No information available.		

**Explosion data** 

chemical



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OSHA HCS2012

### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
precautions for fire-fighters	Use personal protection equipment.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautionsEnsure adequate ventilation. Use personal protective equipment as required. Evacuate<br/>personnel to safe areas.Other informationRefer to protective measures listed in Sections 7 and 8.Methods and material for containmentand cleaning upMethods for containmentPrevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

#### 8. Exposure controls/personal protection

#### Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational



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OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

#### 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Oily
Color	colorless
Odor	No information available
Odor threshold	No information available
Property_	Values
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling	rangeNo data available
Flash point	No data available
Evaporation rate	No data available

Remarks • Method None known None known None known None known None known



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OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

Flammability Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive	No data available No data available No data available	None known None known
limits Vapor pressure Relative vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity	No data available No data available	None known None known None known None known None known None known None known None known None known
Other information Explosive properties Oxidizing properties Softening point Molecular weight VOC content Liquid Density Bulk density	No information available No information available No information available 152.23 No information available No information available No information available	

### 10. Stability and reactivity

Reactivity	No information available.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	None under normal processing.	
Conditions to avoid	None known based on information supplied.	
Incompatible materials	None known based on information supplied.	
Hazardous decomposition products None known based on information supplied.		

### 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

Inhalation

Specific test data for the substance or mixture is not available.



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### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	No information available.	

Acute toxicity

Numerical measures of toxicity

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
(Alpha,beta)-Thujone 76231-76-0	= 192 mg/kg (Rat)	-	-

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

Skin corrosion/irritation	No information available.		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		



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OSHA HCS2012

TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

- Aspiration hazardNo information available.Other adverse effectsNo information available.
- Interactive effects No information available.

12. Ecological information			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
Persistence and degradability	No information available.		
Bioaccumulation	There is no data for this product.		
Other adverse effects	No information available.		

### 13. Disposal considerations

<b>Disposal methods</b>
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Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

### 14. Transport information

DOT	

UN2810
Toxic liquids, organic, n.o.s. ((Alpha,beta)-Thujone)
6.1
IB3, T7, TP1, TP28
NP
UN2810, Toxic liquids, organic, n.o.s. ((Alpha,beta)-Thujone), 6.1, III
153



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

#### Number

<u>TDG</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Marine pollutant Description	UN2810 Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone) 6.1 III 16 NP UN2810, Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone), 6.1, III
MEX UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions	UN2810 Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone) 6.1 III (Alpha,beta)-Thujone UN2810, Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone), 6.1, III 223, 274
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Technical Name Description Special Provisions ERG Code	UN2810 Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone) 6.1 III (Alpha,beta)-Thujone UN2810, Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone), 6.1, III A3, A4, A137 6L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No. Special Provisions Marine pollutant Description	UN2810 Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone) 6.1 III F-A, S-A 223, 274 NP UN2810, Toxic liquid, organic, n.o.s. ((Alpha,beta)-Thujone), 6.1, III

### 15. Regulatory information

#### International Inventories

#### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided



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OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
(Alpha,beta)-Thujone	76231-76-0	-	Unknown *

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECI	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS	Health hazards 2 Health hazards 2 *	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbreviations and acronyms used in the safety data sheetLegendSection 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELCeilingMaximum limit valueSk*StructureSkin designation				
Agency for Toxic Substa U.S. Environmental Pro European Food Safety & Environmental Protectic Acute Exposure Guideli U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance I International Uniform CI Japan GHS Classificatio Australia National Indus NIOSH (National Institu National Library of Medi	on Agency ine Level(s) (AEGL(s)) tection Agency Federal Inse tection Agency High Produc Database hemical Information Databa on strial Chemicals Notification te for Occupational Safety a icine's ChemID Plus (NLM ( icine's PubMed database (N	y (ATSDR) Database ecticide, Fungicide, and F ction Volume Chemicals use (IUCLID) and Assessment Schem and Health) CIP)	Rodenticide Act	



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

#### TRC-T405805-50MG - α,β-Thujone (>90%)

Revision date 05-Jul-2024

New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 05-Jul-2024 No information available.

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet