

## Safety Data Sheet

# 2,4,6-Trichloroanisole in methyl tert-butyl ether



Version : V2.0.0.1

Report No. : BWQ9919-2016-MSDS-US

Creation Date : 2025/10/24

Revision Date : -

\*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

## 1 Identification

### Product identifier

Product Name	2,4,6-Trichloroanisole in methyl tert-butyl ether
Cat No.	BWQ9919-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

### Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

### Emergency phone number

Emergency phone number	010-58103678
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## 2 Hazard(s) identification

### Hazard classification according to 29 CFR 1910.1200

Skin Corrosion/Irritation	Category 2
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### Label elements

Hazard pictograms	
Signal word	Warning

### Hazard statements

<b>H315</b>	Causes skin irritation
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## Precautionary statements

### ◆ Prevention

<b>P264</b>	Wash hands and other parts of the body (if related) thoroughly after handling.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### ◆ Response

<b>P321</b>	Specific treatment (see related instructions on the label).
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of water.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.

### ◆ Storage

<b>Storage</b>	Not applicable
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### ◆ Disposal

<b>Disposal</b>	Not applicable
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## Other hazards

	Not applicable.
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## Hazard description

### ◆ Physical and chemical hazards

	No information available
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### ◆ Health hazards

<b>Inhaled</b>	Drowsiness. Dizziness. Headache. Weakness. Unconsciousness.
<b>Ingestion</b>	Abdominal pain. Nausea. Vomiting. (Further see Inhalation).
<b>Skin Contact</b>	Dry skin. Redness.
<b>Eye</b>	Redness.

### ◆ Environmental hazards

	Please refer to 12th chapter of SDS.
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## 3 Composition/information on ingredients

### Substance/mixture

	Mixture
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Component	CAS No.	EC No.	Concentration (wt, %)
tert-butyl methyl ether	1634-04-4	216-653-1	99.987
2,4,6-trichloroanisole	87-40-1	201-743-5	0.013

## 4 First-aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily)

	possible), then take to a doctor.
<b>Skin contact</b>	Remove contaminated clothes. Rinse and then wash skin with water and soap.
<b>Ingestion</b>	Rinse mouth. Give a slurry of activated charcoal in water to drink. Do NOT induce vomiting. Refer for medical attention.
<b>Inhalation</b>	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### | Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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### | Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

## 5 Fire-fighting measures

### | Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	There is no restriction on the type of extinguisher which may be used.

### | Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	May expansion or decompose explosively when heated or involved in fire.

### | Special protective equipment and precautions for fire-fighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6 Accidental release measures

### | Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### | Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

### | Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
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## 7 Handling and storage

### Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

### Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

## 8 Exposure controls/personal protection

### Control parameters

#### ◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
tert-butyl methyl ether	Permissible exposure standards for workers in the workplace	40	144	60	180
	Australia	25	92	75	275
	Canada - Ontario	40	-	-	-
	European Union	50	183.5	100	367
	New Zealand	25	92	75	275
	USA - ACGIH	50	-	-	-

### Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

### Personal protection equipment

General requirement	    
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.

<b>Respiratory protection</b>	Must wear appropriate personal respiratory protective equipment.
<b>Skin and body protection</b>	Must wear appropriate chemical protective clothing and chemical resistant shoes.

## 9 Physical and chemical properties and safety characteristics

### Physical and chemical properties

<b>Appearance (physical state, color, etc.)</b>	Clear, colorless liquid
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point(°C)</b>	No information available
<b>Initial boiling point and boiling range(°C)</b>	>35
<b>Flash point(Closed cup, °C)</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	No information available
<b>Upper/lower explosive limits[% (v/v)]</b>	Upper limit : No information available ; Lower limit : No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density(Air = 1)</b>	No information available
<b>Relative density(Water=1)</b>	No information available
<b>Solubility</b>	No information available
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Kinematic viscosity</b>	No information available

## 10 Stability and reactivity

### Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	No information available.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
tert-butyl methyl ether	4000mg/kg(Rat)	No information available	84.999mg/L(Rat)

**Carcinogenicity**

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
tert-butyl methyl ether	Category 2B	Not Listed	Not Listed
2,4,6-trichloroanisole	Not Listed	Not Listed	Not Listed

**Others**

2,4,6-Trichloroanisole in methyl tert-butyl ether	
Skin corrosion/irritation	Causes skin irritation(Category 2)
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

**12 Ecological information****Acute aquatic toxicity**

Component	Fish	Crustaceans	Algae or other aquatic plants
tert-butyl methyl ether	LC <sub>50</sub> :672mg/L (96h)(Fish)	EC <sub>50</sub> : >120mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : >110mg/L (72h)(Algae)

**Chronic aquatic toxicity**

Component	Fish	Crustaceans	Algae or other aquatic plants
tert-butyl methyl ether	No information available	NOEC : 11mg/L(Crustaceans)	NOEC : >110mg/L(Algae)

**Persistence and degradability**

Persistence and degradability	No information available
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**Bioaccumulative potential**

Bioaccumulative potential	No information available
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**Mobility in soil**

Component	log Koc	Remark
tert-butyl methyl ether	0.96	20 °C

**13 Disposal considerations****Disposal considerations**

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
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<b>Contaminated packaging</b>	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Disposal recommendations</b>	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

### Label and Mark

<b>Transporting Label</b>	Not applicable
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### IMDG-CODE

<b>IMDG-CODE</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

<b>IATA-DGR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

<b>UN-ADR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### Transport in bulk according to IMO instruments

#### ◆ Transport in bulk according to Annex II of MARPOL and the IBC code

	Not Available
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#### ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available
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#### ◆ Transport in bulk in accordance with the IGC Code

	Not Available
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### Others

<b>Precautions for transport</b>	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.
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## 15 Regulatory information

### International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
tert-butyl methyl ether	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,4,6-trichloroanisole	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓

- [A] China Inventory of Existing Chemical Substances(IECSC)  
 [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)  
 [C] United States Toxic Substances Control Act Inventory(TSCA)  
 [D] Canadian Domestic Substances List(DSL)  
 [E] New Zealand Inventory of Chemicals(NZIoC)  
 [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)  
 [G] Korea Existing Chemicals Inventory(KECL)  
 [H] Australian. Inventory of Industrial Chemical (AIICS)  
 [I] Japan Inventory of Existing & New Chemical Substances(ENCS)  
 [J] Thailand Existing Chemicals Inventory(TECI)  
 [K] Mexico National Inventory of Chemical Substances (INSQ)

- 【L】 Russia Inventory of Existing Substances (DRAFT)  
 【M】 Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

## List of Chemical Substances under International Conventions

Component	A	B	C
tert-butyl methyl ether	×	×	×
2,4,6-trichloroanisole	×	×	×

- 【A】 The Montreal Protocol on Substances that Deplete the Ozone Layer  
 【B】 Stockholm Convention on Persistent Organic Pollutants (POPs)  
 【C】 Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

## US chemical inventory

Component	A	B	C	D	E	F	G	H
tert-butyl methyl ether	✓	×	✓	✓	✓	✓	✓	×
2,4,6-trichloroanisole	×	×	×	×	×	×	×	×

- 【A】 US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants  
 【B】 US SARA 302- Extremely Hazardous Substance List  
 【C】 US CERCLA- Hazardous Substances List  
 【D】 US Massachusetts Right-to-Know Substance List  
 【E】 US New Jersey Right to Know Hazardous Substance List  
 【F】 US Pennsylvania Right to Know Hazardous Substance List  
 【G】 US New York City Right-to-Know Hazardous Substance List  
 【H】 US California Proposition 65 List

Note:

- “✓” Indicates that the substance included in the regulations.  
 “×” No data or not included in the regulations.

## 16 Other information

### Information on revision

Creation Date	2025/10/24
Revision Date	-
Reason for revision	-

### Reference

- IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- IARC, website: <http://www.iarc.fr/>.
- OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/>.
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer



DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>OW</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

## Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.