Safety Data Sheet

2,2,4-Trimethylpentane in Carbon

tetrachloride

Version: V2.0.0.1

Report No.: BWQ7612-2016-MSDS-US

Creation Date: 2025/10/14

Revision Date: -

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



1 Identification

| Product identifier

-		
	Product Name	2,2,4-Trimethylpentane in Carbon tetrachloride
	Cat No.	BWQ7612-2016
	CAS No.	Not applicable
	EC No.	Not applicable
IV	lolecular 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

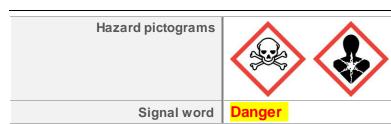
Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 3
Acute Toxicity - Dermal	Category 3
Acute Toxicity - Inhalation	Category 3
Carcinogenicity	Category 2
Specific target organ toxicity -	Category 1
repeated exposure	

Label elements



Hazard statements

H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure

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| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
▲ Resnonse	protection.

Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
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Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal

·	
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

Ingestion

	No information available
Health hazards	
Inhale	Dizziness. Drowsiness. Headache. Nausea. Vomiting.

Abdominal pain. Diarrhoea. (Further see Inhalation).

Skin Contact	MAY BE ABSORBED! Redness. Pain.	
Eye	Redness. Pain.	
Environmental hazards		
	Please refer to 12th chapter of SDS.	

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3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
2,2,4-Trimethylpentane	540-84-1	208-759-1	0.1
Carbon tetrachloride	56-23-5	200-262-8	99.9

4 First-aid measures

Description of first aid measures

•	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Ingestion	Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention.
Inhalation	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention.
Protecting of first-aiders	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

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ , water spray or regular foam; Large fire: water spray, fog or regular foam; Fire involving tanks: cool containers with flooding
	quantities of water until well after fire is out.
Unsuitable extinguishing media	Large fire: Do not scatter spilled material with high-pressure water streams.

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

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

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

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/m³	ppm	mg/m³

2,2,4-Trimethylpentane	Finland	300	1400	380	1800
	Germany (DFG)	100	470	200	940
	Switzerland	100	470	200	940
Carbon tetrachloride	Japan - JSOH(2024–202 5)	5	31	-	-
	Permissible exposure standards for workers in the workplace	2	13	4	19.5
	Australia	0.1	0.63	-	-
	Canada - Ontario	2	-	3	-
	European Union	1	6.4	5	32
	New Zealand	0.1	0.63	-	-

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| 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.
Respiratory protection	Must wear appropriate personal dust proof gas mask.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	Clear, colorless liquid
color, etc.)	Gloar, colonoss riquid
color, etc.)	
Odor	Solvent odor
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-23 (Carbon tetrachloride)
Initial boiling point and boiling	76.5 (Carbon tetrachloride)
range(°C)	
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive	Upper limit: No information available; Lower limit: No information available
limits[%(v/v)]	

Vapor pressure	12.2kPa (20°C,Carbon tetrachloride)
Vapor density(Air = 1)	5.3 (Carbon tetrachloride)
Relative density(Water=1)	1.59 (Carbon tetrachloride)
Solubility	846.1mg/L (20 °C,Carbon tetrachloride)
n-octanol/water partition coefficient	2.64 (Carbon tetrachloride)
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	≥100 (Carbon tetrachloride)
Kinematic viscosity	No information available

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10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with an open flame may cause a fire or explosion. In contact with metals, oxidants, triethyl aluminium, amines, boranes and their derivatives may cause an explosion severely.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidantss and halogen. Borane class and its derivatives, amines, metals, oxidants, triethyl aluminium, calcium and ethylene.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Carbon tetrachloride	2350mg/kg(Rat)	> 20000mg/kg(Rabbit)	50.330mg/L(Rat)

Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List		
	the IARC Monographs	by NTP			
2,2,4-Trimethylpentane	Not Listed	Not Listed	Not Listed		
Carbon tetrachloride	Category 2B	Category R	Not Listed		

Others

2,2,4-Trimethylpentane in Carbon tetrachloride						
Skin corrosion/irritation	Based on available data, the classification criteria are not met					
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	Causes damage to organs through prolonged or repeated exposure(Category 1)					
Aspiration hazard	Based on available data, the classification criteria are not met					

Germ cell mutagenicity Ba

Based on available data, the classification criteria are not met

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12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic		
			plants		
Carbon tetrachloride	LC ₅₀ : 7.6mg/L (96h)(Fish)	EC ₅₀ : 8.1mg/L	ErC ₅₀ : 0.46mg/L		
		(48h)(Crustaceans)	(72h)(Algae)		

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Carbon tetrachloride	No information available	NOEC :	NOEC: 0.12mg/L(Algae)
		0.49mg/L(Crustaceans)	

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)				
2,2,4-Trimethylpentane	High	High				

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments				
2,2,4-Trimethylpentane	Medium	BCF=650				

| Mobility in soil

Component	log Koc Remark				
2,2,4-Trimethylpentane	≥2.7 - ≤3.56	20 ℃, pH=7.0			
Carbon tetrachloride	2.06	20 ℃			

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.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label



IMDG-CODE

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

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IATA-DGR

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class	9
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

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

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

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.

15 Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
2,2,4-Trimethylpentane	√	√	√	√	√	√	√	√	√	√	√	√	√
Carbon tetrachloride	√												

- [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)
- [1] 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	Α	В	С
2,2,4-Trimethylpentane	×	×	×
Carbon tetrachloride	V	×	×

- [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	Α	В	С	D	E	F	G	Н
2,2,4-Trimethylpentane	√	×	√	√	√	√	√	×
Carbon tetrachloride	√	×	√	√	√	√	√	√

- [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:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/14
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.

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- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] 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 ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	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.

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