### **Safety Data Sheet**

# Mix hydrocarbon

# (n-hexadecane:pristane:toluene=5:3:1) in carbon tetrachloride

Version: V2.0.0.1

Report No.: BWQ0046-2016-MSDS-US

Creation Date: 2025/11/13

Revision Date: -

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

# 1 Identification

### | Product identifier

Product Name	Mix hydrocarbon (n-hexadecane:pristane:toluene=5:3:1) in carbon tetrachloride
Cat No.	BWQ0046-2016
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

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 pictograms	
Signal word	<b>Danger</b>
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
Precautionary statements	
<ul><li>Prevention</li></ul>	
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/hearin 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.
◆ 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	
<ul> <li>Physical and chemical haz</li> </ul>	ards
-	No information available

Dizziness. Drowsiness. Headache. Nausea. Vomiting.

Inhaled

Ingestion	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.	

# Composition/information on ingredients

#### Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Carbon tetrachloride	56-23-5	200-262-8	99.9847
Hexadecane	544-76-3	208-878-9	0.0084
2,6,10,10-tetramethylpenta decane	1921-70-6	217-650-8	0.0052
Toluene	108-88-3	203-625-9	0.0017

# 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.
- Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO <sub>2</sub> or water spray; Large fire: dry chemical, CO <sub>2</sub> ,
	alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or
	highway tanks: Fight fire from maximum distance or use unmanned master
	stream devices or monitor nozzles. Cool containers with flooding quantities of

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		water until well after fire is out. Do not get water inside containers.
Insu	itable extinguishing media	No information available.
Sı	pecific hazards arising fro	om the substance or mixture
1	May emit poisonous fumes o	
2	, ,	combustion gases or vapor possible in the event of fire.
3	May expansion or decompose explosively when heated or involved in fire.	
Spe	cial protective equipmen	t and precautions for fire-fighters
1		ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full
2	Fight fire from a safe distanc	e, with adequate cover.
3	Prevent fire extinguishing wa	ter from contaminating surface water or the ground water system.
6	^	
6	Accidental release me	easures 
Per	sonal precautions, protec	tive equipment and emergency procedures
1	Fully encapsulating, vapor pr	rotective clothing should be worn for spills and leaks with no fire.
2	Do not touch or walk through spilled material.	
3	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	
4	Use personal protective equipment,do not breathe gas/mist/vapour/spray.	
5	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.	
6	Evacuate personnel to safe a	areas. Keep people away from and upwind of spill/leak.
Enν	rironmental precautions	
1	Prevent further leakage or sp	billage if safe to do so.
2	Discharge into the environment must be avoided.	
Moi	thads and materials for co	ontainment and cleaning up
1	Do not touch or cross spills.	The state of the s
2	Cover with anti-solvent foam	to reduce evaporation
3		gency personnel wear positive pressure self-contained breathing apparatus and
4		por and dilutes the liquid spill.
5	Do not touch broken contained	ers and spills before putting on appropriate protective clothing.
6	Cut off the source of the leak	as much as possible.
7	Keep leaks in a ventilated pla	ace.
8	Absorb spilled material in dry bunding.	sand or inert absorbent. In case of large amount of spillage, contain a spill by
9		n. Use spark-proof tools and explosion-proof equipment.
10	Contain spillage, and then co	ollect with an electrically protected vacuum cleaner or by wet-brushing and place

# 7 Handling and storage

container.

### | Precautions for safe handling

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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.

# 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
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	-	-
Toluene	Japan - JSOH(2024–202 5)	50	188	-	-
	Permissible exposure standards for workers in the workplace	50	188	75	235
	Australia	50	191	150	574
	Canada - Ontario	20	-	-	-
	European Union	50	192	100	384
	New Zealand	20	75	100	377

### | Engineering controls

•	1	Ensure adequate ventilation, especially in confined areas.	
2	2	Ensure that eyewash stations and safety showers are close to the workstation location.	
3	3	Use explosion-proof electrical/ventilating/lighting/equipment.	
4	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.

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# 9 Physical and chemical properties and safety characteristics

## | Physical and chemical properties

colorless liquid		
No information continue		
No information available		
No information available		
No information available		
-23 ( Carbon tetrachloride )		
76.5 ( Carbon tetrachloride )		
No information available		
No information available		
No information available		
Upper limit : No information available ; Lower limit : No information available		
12.2kPa ( 20°C,Carbon tetrachloride )		
5.3 ( Carbon tetrachloride )		
1.59 ( Carbon tetrachloride )		
846.1mg/L ( 20 °C,Carbon tetrachloride )		
2.64 ( Carbon tetrachloride )		
No information available		
≥100 ( Carbon tetrachloride )		
No information available		

# 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	l i i i i i i i i i i i i i i i i i i i
Conditions to avoid	Incompatible materials, heat, flame and spark.

Incompatible materials	Borane class and its derivatives, amines, metals, oxidants, triethyl aluminium,
	calcium and ethylene. Halides, oxidants and halogen.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
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)
Carbon tetrachloride	2350mg/kg(Rat)	> 20000mg/kg(Rabbit)	50.330mg/L(Rat)
Toluene	636mg/kg(Rat)	12200mg/kg(Rabbit)	49mg/L(Rat)

## Carcinogenicity

Component List of carcinogens by		Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Carbon tetrachloride	Category 2B	Category R	Not Listed
Hexadecane	Not Listed	Not Listed	Not Listed
2,6,10,10-tetramethylpenta decane	Not Listed	Not Listed	Not Listed
Toluene	Category 3	Not Listed	Not Listed

### Others

Mix hydrocarbon (n-hexadecane:pristane:toluene=5:3:1) 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-single exposure	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	Based on available data, the classification criteria are not met		

# 12 Ecological information

### | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Carbon tetrachloride LC <sub>50</sub> : 7.6mg/L (96h)(Fish)		EC <sub>50</sub> : 8.1mg/L	ErC <sub>50</sub> : 0.46mg/L
		(48h)(Crustaceans)	(72h)(Algae)
Toluene	LC <sub>50</sub> : 25mg/L (96h)(Fish)	EC <sub>50</sub> : 4.1mg/L	ErC <sub>50</sub> : 29mg/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)	
Toluene	No information available	NOEC:	NOEC: 9.1mg/L(Algae)
		1.2mg/L(Crustaceans)	

### | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Hexadecane	Low	Low

### | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Hexadecane	Low	Log Kow=8.199

### | Mobility in soil

Component	log Koc	Remark
Carbon tetrachloride	2.06	20 ℃
Hexadecane	≥6.3779 - ≤7.5362	20 °C , pH=7
Toluene	2.31	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	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

tetrachloride	Version: V2.0.0.1 Revision Date:
Marine pollutant ( Yes or no )	No
IATA-DGR	
UN number	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard class	None
Packing group	Ш
UN-ADR	
UN number	2810
UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard class	None
Packing group	ш
Transport in bulk according t	o IMO instruments
◆Transport in bulk according	to Annex II of MARPOL and the IBC code
	Not Available
◆ Transport in bulk in accorda	nce with MARPOL Annex V and the IMSBC Code
	Not Available
◆Transport in bulk in accorda	nce with the IGC Code
	Not Available
Others	
Precautions for transport	Transit should be anti-exposure, rain, high temperature. Strictly prohibited

Precautions for transport

Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. 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
Carbon tetrachloride	<b>√</b>	√	<b>√</b>	<b>√</b>	√	√	√	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Hexadecane	<b>√</b>	×	×	<b>√</b>	<b>√</b>								
2,6,10,10-tetramethylpenta decane	×	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	×	×	<b>√</b>	<b>√</b>	×	×	<b>√</b>	√
Toluene	<b>√</b>												

- [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(NZloC)
- [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
Carbon tetrachloride	V	×	×
Hexadecane	×	×	×
2,6,10,10-tetramethylpent adecane	×	×	×
Toluene	×	×	×

- [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
Carbon tetrachloride	$\sqrt{}$	×	√	√	√	√	√	√
Hexadecane	×	×	×	×	×	×	×	×
2,6,10,10-tetramethylpen tadecane	×	×	×	×	×	×	×	×
Toluene	<b>V</b>	×	√	√	√	√	√	<b>√</b>

- [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	2025/11/13
Revision Date	-
Reason for revision	-

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#### 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/.

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- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [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 <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
$EC_X$	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 dis ruptor	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.