Safety Data Sheet

Density standard

Version: V2.0.0.1

Report No.: BWZ7486-2016-MSDS-US

Creation Date: 2025/10/17

Revision Date: -



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

1	Identification
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| Product identifier

Product Name	Density standard
Cat No.	BWZ7486-2016
CAS No.	110-82-7
EC No.	203-806-2
Molecular Formula	C6H12

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

Flammable liquids	Category 2
Aspiration hazard	Category 1
Skin Corrosion/Irritation	Category 2
Specific target organ toxicity -	Category 3
single exposure; narcotic	
effects	

| Label elements

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Hazard pictograms	
Signal word	Danger

| Hazard statements

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness

| Precautionary statements

Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P321	Specific treatment (see related instructions on the label).
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Small fire: dry chemical, CO ₂ or alcohol-resistant foam; Large fire: alcohol-resistant foam; 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 water until well after fire is out.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
▲ Dienocal	

Disposal

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

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Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

Highly flammable liquids, its vapor and air mixture can form explosive mixture.

Health hazards

Inhaled	Cough. Dizziness. Drowsiness. Headache. Nausea.
Ingestion	Abdominal pain. Nausea. Vomiting. (Further see Inhalation).
Skin Contact	Redness. Dry skin.
Eye	Redness.

Environmental hazards

Please refer to 12th chapter of SDS.

Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Cyclohexane	110-82-7	203-806-2	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	Rinse with plenty of water (remove contact lenses if easily possible).
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.
Inhalation	Fresh air, rest.
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

1 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 or alcohol-resistant foam; Large fire:
	alcohol-resistant foam: Fire involving tanks, rail tank cars or highway tanks; Fight

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		fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out
Unsu	uitable extinguishing media	Use of water spray when fighting fire may be inefficient.
S 	Will form explosive mixtures	m the substance or mixture
	· .	
2	or vapour concentration.	vent contents through pressure relief valves thereby increasing fire intensity and/
3	Vapours may travel to source	of ignition and flash back.
4	Liquid and vapour are flamm	able.
5	Development of hazardous c	ombustion gases or vapor possible in the event of fire.
6	May expansion or decompos	e explosively when heated or involved in fire.
Sp	ecial protective equipmen	t and precautions for fire-fighters
1	As in any fire, wear self-contagree protective gear.	ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full
2	Fight fire from a safe distance	e, with adequate cover.
3	Prevent fire extinguishing wa	ter from contaminating surface water or the ground water system.
6	Accidental release me	easures
		easures tive equipment and emergency procedures
	rsonal precautions, protec	
Pe	rsonal precautions, protect Avoid breathing vapours and	tive equipment and emergency procedures
Per 1	rsonal precautions, protect Avoid breathing vapours and	tive equipment and emergency procedures contacting with skin and eye. ting to form explosive concentrations.
Per 1 2	Avoid breathing vapours and Beware of vapours accumulate in le	tive equipment and emergency procedures contacting with skin and eye. ting to form explosive concentrations. ow areas. positive pressure self-contained breathing apparatus. Wear protective and
Per 1 2 3	Avoid breathing vapours and Beware of vapours accumulate in lo Emergency personnel wear panti-static clothing. Wear che	tive equipment and emergency procedures contacting with skin and eye. ting to form explosive concentrations. ow areas. positive pressure self-contained breathing apparatus. Wear protective and
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Per 1 2 3 4 5 6 7	Avoid breathing vapours and Beware of vapours accumulate in local Emergency personnel wear panti-static clothing. Wear che Use personal protective equipersure adequate ventilation. discharges.	contacting with skin and eye. Iting to form explosive concentrations. Dow areas. Dositive pressure self-contained breathing apparatus. Wear protective and mical impermeable gloves. Doment, do not breathe gas/mist/vapour/spray. Remove all sources of ignition. Take precautionary measures against static areas. Keep people away from and upwind of spill/leak.

1110	and that that of all the containment and ordaining up
1	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-static clothing.
2	In case of small amount of spillage, use clean non sparking tools to collect absorption materials.
3	In case of large amount of spillage, construct cofferdam or dig a hole to collect the spillage. Use foam cover to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in the restricted space.
4	Collect absorbent material using a clean, non-sparking tool.
5	Cover with anti-solvent foam to reduce evaporation.
6	Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
7	Water spray reduces evaporation but does not reduce the flammability of spills in confined spaces.
8	Cut off the source of the leak as much as possible.

9	Keep leaks in a ventilated place.
10	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
11	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
12	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.
13	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

| Precautions for safe handling

1	Avoid inhalation of vapors.
2	Use only non-sparking tools.
3	To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4	Use explosion proof equipment.
5	Handling is performed in a well ventilated place.
6	Wear suitable protective equipment.
7	Avoid contact with skin and eyes.
8	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
Cyclohexane	Japan - JSOH(2024–202 5)	150	520	-	-
	Permissible exposure standards for workers in the workplace	300	1030	375	1030
	Australia	100	350	300	1050
	Canada - Ontario	100	-	-	-
	European Union	200	700	-	-
	New Zealand	100	350	300	1050

| 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 anti static chemical protective gloves.	
Respiratory protection	Must wear appropriate personal respiratory protective equipment.	
Skin and body protection	Must wear anti static chemical protective clothing and anti static shoes.	

9 Physical and chemical properties and safety characteristics

| Physical and chemical properties

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Appearance (physical state,	Clear, colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	7
Initial boiling point and boiling	81
range(°C)	
Flash point(Closed cup,°C)	-18
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: 8.4; Lower limit: 1.3
Vapor pressure	10.3kPa (20°C)
Vapor density(Air = 1)	2.9
Relative density(Water=1)	0.8
Solubility	52mg/L (23.5 °C)
n-octanol/water partition	3.4
coefficient	
Auto-ignition temperature(°C)	260
Decomposition temperature(°C)	No information available
Kinematic viscosity	1.26x10-6 mm ² /s (26°C)

10 Stability and reactivity

| Stability and reactivity

<u>'</u>		
Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.	
Possibility of hazardous	In contact with an open flame may cause a fire or explosion.	
reactions		

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Conditions to avoid	Incompatible materials, heat, flame and spark.	
Incompatible materials	Oxidantss 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 ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Cyclohexane	12705mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Cyclohexane	Not Listed	Not Listed	Not Listed

Others

Cyclohexane(Component)			
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-single exposure	May cause drowsiness or dizziness(Category 3)		
STOT-repeated exposure	Based on available data, the classification criteria are not met		
Aspiration hazard	May be fatal if swallowed and enters airways(Category 1)		
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
Cyclohexane	LC ₅₀ : 4.35mg/L (96h)(Fish)	No information available	No information available

| Chronic aquatic toxicity

| Persistence and degradability

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

Mobility in soil

Component	log Koc	Remark
Cyclohexane	2.89	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	1145
UN proper shipping name	CYCLOHEXANE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1145
UN proper shipping name	CYCLOHEXANE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	1145
UN proper shipping name	CYCLOHEXANE
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

Transport in bulk according to IMO instruments

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

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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

Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Transit should be anti-exposure, anti-rain, anti-high temperature.

Transportation used tank (tank) cars should be grounded chain, tank can be installed to reduce the partition hole static electricity shocks. Strictly prohibited shipping or transportation with oxidants, acids, food and food additives etc. When bulk transport, Prohibit the use of cement or wooden boats. 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	Е	F	G	Н	I	J	K	L	М
Cyclohexane	V	√	1	√	V	V	1	V	1	V	V	V	V

- [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
Cyclohexane	×	×	×

- [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
Cyclohexane	×	×	√	√	√	√	√	×

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- [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	2025/10/17
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.
- [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	opment
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 Hy	/gienists
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 repro	duction
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.