Safety Data Sheet

Cyanide in drinking water

Version: V2.0.0.1

Report No.: BWZ7822-2016-MSDS-US

Creation Date: 2025/10/11

Revision Date: -



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

| Product identifier

Product Name	Cyanide in drinking water
Cat No.	BWZ7822-2016
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

According to OSHA HCS-2024, not classified as a hazardous chemical.

| Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

| Hazard statements

Hazard statements	Not applicable

| Precautionary statements

Prevention

Prevention	Not applicable
◆ Response	
Response	Not applicable
Storage	
Storage	Not applicable
Disposal	
Disposal	Not applicable
Other hazards	

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

No information available

Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.
. = :	

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Water	7732-18-5	231-791-2	99.99981
Sodium cyanide	143-33-9	205-599-4	0.00019

4 First-aid measures

Description of first aid measures

<u>•</u>	
General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing,

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		give artificial respiration and consult a physician immediately.
	Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
l Ma	ost important symptoms/e	ffacts, south and dolayed
IVIO	at important symptomate	nects, acute and delayed

Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- 2 Symptoms may be delayed.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, dry sand, alcohol-resistant foam; Large fire: water spray, fog or 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. Do not get water inside containers.
Unsuitable extinguishing	Small fire: do not use CO ₂ ; Large fire: avoid aiming straight or solid streams
media	directly onto the product.

Specific hazards arising from the substance or mixture

- 1 May emit poisonous fumes on fire.
- 2 Development of hazardous combustion gases or vapor possible in the event of fire.
- 3 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.
- 2 Fight fire from a safe distance, with adequate cover.
- Prevent fire extinguishing water from contaminating surface water or the ground water system. 3

Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Fully encapsulating, vapor protective 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 areas. Keep people away from and upwind of spill/leak.

Environmental precautions

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

Methods and materials for containment and cleaning up

1	Do not touch or cross spills.
2	Cover with anti-solvent foam to reduce evaporation.
3	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
4	Spray water disperses the vapor and dilutes the liquid spill.
5	Do not touch broken containers 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 place.
8	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
9	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

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7 Handling and storage

container.

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.

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
Sodium cyanide	Japan - JSOH(2024–202 5)	-	-	-	-
	Permissible exposure standards for workers in the workplace	-	5 (as CN-)	-	10 (as CN-
	Canada - Ontario	-	-	-	5
	European Union	-	1	-	5
	USA - NIOSH	-	-	4.7	5
	USA - OSHA	-	5	-	-

| 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.

| Personal protection equipment

4 Set up emergency exit and necessary risk-elimination area.

General requirement	No special requirements, please see the description below.		
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.		
Hand protection	In general situation, hand protection is not needed.		
Respiratory protection	protection In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof may or gas defence mask.		
Skin and body protection	In general situation, skin and body protection are not needed.		

Physical and chemical properties and safety characteristics

| Physical and chemical properties

colorless liquid
No information available
No information available
7.00 (20°C,Water)
0 (Water)
100 (Water)
No information available
No information available
No information available
Upper limit: No information available; Lower limit: No information available
2.33kPa (20°C,Water)
> 1 (Water)
1 (3.9°C, Water)
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	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and		
reactions	release hydrogen. May explode after mixed with acetylene and acetone.		
Conditions to avoid	Incompatible materials, heat, flame and spark.		
Incompatible materials			
	oxide, acyl halide and metal phosphide. Nitrate, nitrite, halogen containing oxygen,		
	chromate acid salt, magnesium, inorganic acid.		
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)
Sodium cyanide	6mg/kg(Rat)	10.4mg/kg(Rabbit)	No information available

Carcinogenicity

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

Others

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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	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
Sodium cyanide	LC ₅₀ : 0.0158mg/L (96h)(Fish)	No information available	No information available

| Chronic aquatic toxicity

Chronic	aquatic	toxicity	Noi	information	available
CHIOTIC	auuauc	LUXICILY	1 1 NO 1	IIIIOIIIIalioii	avallable

Persistence and degradability

Persistence	and d	legrad	dability		lo in	formation	availa	ble	е
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| Bioaccumulative potential

Bioaccumulative	notential	Nο	information	available
Dibacculliulative	Dutellilai	INU	IIIIOIIIIalioii	avallable

| Mobility in soil

Component	log Koc	Remark
Sodium cyanide	0.45	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.

Transport information

Label and Mark

Transporting Label



| IMDG-CODE

UN number	3414
UN proper shipping name	SODIUM CYANIDE SOLUTION
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	Yes

IATA-DGR

UN number	3414
UN proper shipping name	SODIUM CYANIDE SOLUTION
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	3414
UN proper shipping name	SODIUM CYANIDE SOLUTION
Transport hazard class	6.1
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

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.

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15 Regulatory information

International chemical inventory

Component	A	В	С	D	E	F	G	Н	I	J	K	L	М
Water	√	√	√	√	√	√	√						
Sodium cyanide	√	√	√	√	√	√	√						

- [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	A	В	С
Water	×	×	×
Sodium cyanide	×	×	×

- [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	В	С	D	E	F	G	Н
Water	×	×	×	×	×	×	×	×
Sodium cyanide	×	√	√	√	√	√	1	×

- [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.

Other information

Information on revision

Creation Date	2025/10/11
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
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 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

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