Safety Data Sheet

Cyanuric acid in acetonitrile:water

Version: V2.0.0.1

Report No.: BWN5466-2016-MSDS-US

Creation Date: 2025/11/15

Revision Date: -



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

1 Identification

| Product identifier

Product Name	Cyanuric acid in acetonitrile:water
Cat No.	BWN5466-2016
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

	and the second second second	040 50400070
Emergency	phone number	I 010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Flammable liquids	Category 2
Acute Toxicity - Oral	Category 4
Serious eye damage/irritation	Category 2
Acute Toxicity - Inhalation	Category 4

Label elements

Hazard pictograms





Cyanane dela in dectoria ile.water	VOISION : V2.0.0.2 NOVISION BALE :
Signal word	Danger
Hazard statements	
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
Dra coutionary atatamenta	
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.
P243	Avoid breathing 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.
◆ Response	
P330	Rinse mouth.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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: Figh
	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 ou
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
P305+P351+P338	affected areas with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
◆ Storage	
P403+P235	Store in a well-ventilated place. Keep cool.
◆ Disposal	1 200 2 20 20 20 20 20 20 20 20 20 20 20
P501	Dispose of contents/container in accordance with local/regional/national/
1 301	international regulations.
Other hazards	
	Not applicable.
Hazard description	
 Physical and chemical haz 	ards
T Trystoat and offermoathaz	Highly flammable liquids, its vapor and air mixture can form explosive mixture.
→ Health hazards	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
▼ 11caili111a2a1U5	

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the product during the course of normal handling, may produce severely toxic effects; these may be harmful.
Ingestion	Accidental ingestion of the product may be harmful.
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 serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.
 Environmental hazards 	
	Please refer to 12th chapter of SDS.

Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Acetonitrile	75-05-8	200-835-2	44.00
Water	7732-18-5	231-791-2	55.98
Cyanuric acid	108-80-5	203-618-0	0.011

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 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, 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.

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

Cyan	nuric acid in acetonitrile:water	version: v2.0.0.1 Revision Date:
	itable 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 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	itable extinguishing media	Use of water spray when fighting fire may be inefficient.
S	pecific hazards arising fro	om the substance or mixture
1	Will form explosive mixtures	with air.
2	Fire exposed containers may or vapour concentration.	vent contents through pressure relief valves thereby increasing fire intensity and/
3	Vapours may travel to source	e of ignition and flash back.
4	Liquid and vapour are flamm	able.
5	Development of hazardous of	combustion gases or vapor possible in the event of fire.
6	May expansion or decompos	e explosively when heated or involved in fire.
Spe	ecial protective equipmen	t and precautions for fire-fighters
1		ained breathing apparatus (MSHA/NIOSH approved or equivalent) and full
•	protective gear.	amou broathing apparation (Mora Villocit approved of equivalent) and tall
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	Accidental release m	easures
Per	sonal precautions, protec	etive equipment and emergency procedures
1	Avoid breathing vapours and	contacting with skin and eye.
2	Beware of vapours accumula	ating to form explosive concentrations.
3	Vapours can accumulate in l	ow areas.
4	Emergency personnel wear	positive pressure self-contained breathing apparatus. Wear protective and
	anti-static clothing. Wear che	
5	· · · · · · · · · · · · · · · · · · ·	pment,do not breathe gas/mist/vapour/spray.
6	discharges.	Remove all sources of ignition. Take precautionary measures against static
7	Evacuate personnel to safe a	areas. Keep people away from and upwind of spill/leak.
Env	vironmental precautions	
1	Prevent further leakage or sp	pillage if safe to do so.
2	Discharge into the environme	ent must be avoided.
Met	thods and materials for co	ontainment and cleaning up
1	It is recommended that emer wear anti-static clothing.	gency personnel wear positive pressure self-contained breathing apparatus and
2	In case of small amount of sp	pillage, use clean non sparking tools to collect absorption materials.
3	reduce evaporation. Waters leakage in the restricted space	
4	Collect absorbent material us	sing a clean, non-sparking tool.
5	Cover with anti-solvent foam	to reduce evaporation.
6	Cover with DRY earth, DRY spreading or contact with rain	sand or other non-combustible material followed with plastic sheet to minimize n.

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
Acetonitrile	Permissible exposure standards for workers in the workplace	40	67	60	100.5
	Australia	40	67	60	101
	Canada - Ontario	20	-	-	-
	European Union	40	70	-	-
	New Zealand	40	67	60	101
	USA - ACGIH	20	-	-	-
Cyanuric acid	Poland	-	10	-	-

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.

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| 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

• • • • • • • • • • • • • • • • • • • •	
Appearance (physical state,	colorless liquid
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	-46 (Acetonitrile)
Initial boiling point and boiling	82 (Acetonitrile)
range(°C)	
Flash point(Closed cup,°C)	2 (Acetonitrile)
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive	Upper limit: 17 (Acetonitrile); Lower limit: 3 (Acetonitrile)
limits[%(v/v)]	
Vapor pressure	9.9kPa (25°C,Acetonitrile)
Vapor density(Air = 1)	1.4 (Acetonitrile)
Relative density(Water=1)	0.8 (Acetonitrile)
Solubility	1000000mg/L (25 °C,Acetonitrile)
n-octanol/water partition	-0.3 (Acetonitrile)
coefficient	
Auto-ignition temperature(°C)	524 (Acetonitrile)
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
	8

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 N-halogen compounds may cause a potensive explosive hazardous. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.		
Conditions to avoid	Incompatible materials, heat, flame and spark.		
Incompatible materials	N - halogenated compounds, sulfuric acid and strong oxidants. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.		
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)
Acetonitrile	2460mg/kg(Rat)	> 2000mg/kg(Rabbit)	4.748mg/L(Rabbit)
Cyanuric acid	7700mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available

| Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Acetonitrile	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Cyanuric acid	Not Listed	Not Listed	Not Listed

Others

Cyanuric acid in acetonitrile:water				
Skin corrosion/irritation	Based on available data, the classification criteria are not met			
Serious eye damage/irritation	Causes serious eye irritation(Category 2)			
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	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			

Ecological information

| Acute aquatic toxicity

Component Fish		Crustaceans	Algae or other aquatic
			plants
Acetonitrile	LC ₅₀ : > 100mg/L	EC ₅₀ : > 1000mg/L	ErC ₅₀ : >700mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)
Cyanuric acid	LC ₅₀ : > 1000mg/L	EC ₅₀ : 1000mg/L	ErC ₅₀ : 950mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Acetonitrile	NOEC: 102mg/L(Fish)	NOEC : >960mg/L(Crusta ceans)	NOEC : 700mg/L(Algae)
Cyanuric acid	NOEC: 1000mg/L(Fish)	NOEC : 32mg/L(Crustaceans)	NOEC : 250mg/L(Algae)

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| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Cyanuric acid	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Cyanuric acid	Low	BCF=0.5

| Mobility in soil

Component	log Koc	Remark
Acetonitrile	0.653	
Cyanuric acid	2.095	

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	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class	3
Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
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

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
Acetonitrile	√	√	√	√	√	√	√	√	√	√	√	√	√
Water	V	√											
Cyanuric acid	√	√	√	√	√	√	√	√	√	√	√	√	√

- [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
Acetonitrile	×	×	×
Water	×	×	×
Cyanuric acid	×	×	×

- [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
Acetonitrile	√	×	√	√	√	√	√	×
Water	×	×	×	×	×	×	×	×
Cyanuric acid	×	×	×	×	×	×	×	×

- [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	2025/11/15
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 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.