Safety Data Sheet

Trivalent arsenic standard solution

Version: V2.0.0.1

Report No.: BWB2507-2016-MSDS-US

Creation Date: 2025/09/22

Revision Date: -



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

1	Identification
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| Product identifier

'		
Product Name	Trivalent arsenic standard solution	
Cat No.	BWB2507-2016	
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

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, %)
Trivalent arsenic	7784-46-5	232-070-5	0.01
Sodium hydrogencarbonate	144-55-8	205-633-8	0.06
Water	7732-18-5	231-791-2	99.93

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.

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	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.	
Mo	st important symptoms/e	ffects, acute and delayed	
1	Substance accumulation, in long-term occupational expo	the human body, may occur and may cause some concern following repeated or osure.	
Ind	ication of any immediate	medical attention and special treatment needed	
1	Treat symptomatically.		
2	Symptoms may be delayed.		
5	Fire-fighting measure	es	
Ext	inguishing media		
Sui	table extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ , 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 water until well after fire is out. Do not get water inside containers.	
	Unsuitable extinguishing media	No information available.	
S	pecific hazards arising fr	om 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 decompo	se explosively when heated or involved in fire.	
Spe	ecial protective equipme	nt and precautions for fire-fighters	
1	As in any fire, wear self-con protective gear.	tained breathing apparatus (MSHA/NIOSH approved or equivalent) and full	
2	Fight fire from a safe distance, with adequate cover.		
3	Prevent fire extinguishing w	ater from contaminating surface water or the ground water system.	
6	Accidental release m	neasures	
Per	sonal precautions, prote	ctive equipment and emergency procedures	
1	Fully encapsulating, vapor p	protective clothing should be worn for spills and leaks with no fire.	

1	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

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 Do not touch or cross spills.
- 2 Cover with anti-solvent foam to reduce evaporation.
- It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.

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- 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.
- 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 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.

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
Trivalent arsenic	USA - ACGIH	-	0.01(as As)	-	-
	Austria	-	0.01	-	0.04
	Finland	-	0.01	-	-

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

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	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.		
Skin and body protection	In general situation, skin and body protection are not needed.		

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	8.4 (Sodium hydrogencarbonate)
Melting point/freezing point(°C)	50 (Decompose, Sodium hydrogencarbonate)
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	66.9Pa (20°C,Sodium hydrogencarbonate)
Vapor density(Air = 1)	No information available
Relative density(Water=1)	2.1 (Sodium hydrogencarbonate)
Solubility	87 g/L (20°C,Sodium hydrogencarbonate)
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	270 (Sodium hydrogencarbonate)
Kinematic viscosity	No information available

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.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	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)
Sodium hydrogencarbonate	4220mg/kg(Rat)	No information available	No information available
Trivalent arsenic	10mg/kg(Rat)	150mg/kg(Rat)	No information available

Carcinogenicity

Component List of carcinogens by		Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Trivalent arsenic	Category 1	Category K	Listed
Sodium	Not Listed	Not Listed	Not Listed
hydrogencarbonate			
Water	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	LC ₅₀ : 8600mg/L	EC ₅₀ : 4100mg/L	No information available
hydrogencarbonate	(96h)(Fish)	(48h)(Crustaceans)	
Trivalent arsenic	LC ₅₀ : 16mg/L (96h)(Fish)	EC ₅₀ : 2.68mg/L	ErC ₅₀ : 31.2mg/L
		(48h)(Crustaceans)	(96h)(Algae)

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Sodium	NOEC: 400mg/L(Fish)	No information available	No information available
hydrogencarbonate			

| Persistence and degradability

Sodium	Low	Low
hydrogencarbonate		

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Sodium	Low	Log Kow=-0.4605
hydrogencarbonate		

| Mobility in soil

Component	log Koc	Remark
Sodium	0.000	
hydrogencarbonate		

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	1686
UN proper shipping name	SODIUM ARSENITE, AQUEOUS SOLUTION
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	1686
UN proper shipping name	SODIUM ARSENITE, AQUEOUS SOLUTION
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	1686
UN proper shipping name	SODIUM ARSENITE, AQUEOUS SOLUTION
Transport hazard class	6.1
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

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	Α	В	С	D	E	F	G	Н	I	J	K	L	М
Trivalent arsenic	√	√	√	√	√	√	√	√	×	×	√	√	√
Sodium hydrogencarbonate	1	1	1	1	1	√	1	√	1	√	√	√	√
Water	1	√	1	√	√	√	V	√	√	1	√	√	√

- [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
Trivalent arsenic	×	×	×

Sodium	×	×	×
hydrogencarbonate			
Water	×	×	×

- [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
Trivalent arsenic	×	√	√	√	√	V	√	×
Sodium hydrogencarbonate	×	×	×	×	×	×	×	×
Water	×	×	×	×	×	×	×	×

- [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	2025/09/22
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	RespiratoryProtective 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.