Safety Data Sheet

Sodium arsenite titration solution

Version: V2.0.0.1

Report No.: BWZ8390-2016-MSDS-US

Creation Date: 2025/11/04

Revision Date: -



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

1 Identi	fication
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| Product identifier

Product Name	Sodium arsenite titration solution	
Cat No.	BWZ8390-2016	
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		
	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

Acute Toxicity - Oral	Category 4
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity -	Category 1
single exposure	
Specific target organ toxicity -	Category 1
repeated exposure	

Label elements



Signal word

Hazard statements

H302	Harmful if swallowed	
H341	Suspected of causing genetic defects	
H350	May cause cancer	
H361	Suspected of damaging fertility or the unborn child	
H370	Causes damage to organs(digestive system, circulatory system, nervous system, blood system, respiratory system, dermal, kidneys, liver)	
H372	Causes damage to organs through prolonged or repeated exposure(digestive system, circulatory system, nervous system, kidneys, liver, blood system, respiratory system, dermal)	

| Precautionary statements

Prevention

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	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.		
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing		
	protection.		
◆ Response			
P321	Specific treatment (see related instructions on the label).		
P330	Rinse mouth.		
◆ Storage			
P405	Store locked up.		
◆ Disposal	•		
P501	Dispose of contents/container in accordance with local/regional/national/		
	international regulations.		

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.	
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may	
	produce systemic injury with harmful effects.	

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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, %)
Sodium arsenite	7784-46-5	232-070-5	1.32
Water	7732-18-5	231-791-2	98.68

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

Suitable 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.

Version: V2.0.0.1 Revision Date: -Specific hazards arising from the substance or mixture May emit poisonous fumes on fire. Development of hazardous combustion gases or vapor possible in the event of fire. 2 May expansion or decompose explosively when heated or involved in fire. 3 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. 3 Prevent fire extinguishing water from contaminating surface water or the ground water system. 6 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. Use personal protective equipment, do not breathe gas/mist/vapour/spray. 4 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static 5 discharges. 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. 2 Discharge into the environment must be avoided. Methods and materials for containment and cleaning up 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. Spray water disperses the vapor and dilutes the liquid spill. 4 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 container. Handling and storage Precautions for safe handling

Handling is performed in a well ventilated place.

Keep away from heat/sparks/open flames/ hot surfaces.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

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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	Limit value - Eight hours		- Short term
		ppm	mg/m³	ppm	mg/m³
Sodium arsenite	Japan - JSOH(2024–202 5)	-	0.003(as As, individual excess lifetime risk of cancer 10^3)	-	-
	Permissible exposure standards for workers in the workplace	-	0.01(as As)	-	0.03(as As)
	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	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant 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

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рН	No information available
Melting point/freezing point(°C)	615 (Sodium arsenite)
Initial boiling point and boiling range(°C)	Decompose before boiling (Sodium arsenite)
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	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	1.87 (Sodium arsenite)
Solubility	Very soluble in water (Sodium arsenite)
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

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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 arsenite	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	
Sodium arsenite	Category 1	Category K	Listed
Water	Not Listed	Not Listed	Not Listed

Others

Sodium arsenite titration solution

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	Suspected of damaging fertility or the unborn child(Category 2)
STOT-single exposure	Causes damage to organs(digestive system, circulatory system, nervous system, blood system, respiratory system, dermal, kidneys, liver)(Category 1)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure(digestive system, circulatory system, nervous system, kidneys, liver, blood system, respiratory system, dermal)(Category 1)
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Suspected of causing genetic defects(Category 2)

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Sodium arsenite	LC ₅₀ : 16mg/L (96h)(Fish)	EC ₅₀ : 2.68mg/L	ErC ₅₀ : 31.2mg/L
		(48h)(Crustaceans)	(96h)(Algae)

| Chronic aquatic toxicity

Chronic aquatic toxicity		No information available
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Persistence and degradability

Persistence and degradability No information available

| Bioaccumulative potential

Bioaccumulative potential No information available

| Mobility in soil

Mobility in soil No information available

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



Sodium arsenite titration solution	Version: V2.0.0.1 Revision Date:				
IMDG-CODE					
UN number	1686				
UN proper shipping name	SODIUM ARSENITE, AQUEOUS SOLUTION				
Transport hazard class	5.1				
Transport subsidiary hazard class	None				
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 class	None				
Packing group	п				
Transport in bulk according to	to 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 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,				

Regulatory information

| International chemical inventory

Component A B C D	E F G H I J K L M
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relevant transporting requirements.

sealing. The transport unit must be placarded and marked in accordance with

Sodium arsenite	√	√	√	√	√	√	V	√	×	×	V	√	√
Water	√	√	√	√	√	√	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(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	A	В	С
Sodium arsenite	×	×	×
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	Α	В	С	D	E	F	G	Н
Sodium arsenite	×	√	√	√	√	V	√	×
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	2025/11/04
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/.

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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 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 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.