

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision Number 3

 1. Identification

 Product Name
 Phenylarsine Oxide Solution, pH 6.5

 Cat No. :
 SP65-1; SP68-1; SP68-4

 Synonyms
 None

 Recommended Use
 Laboratory chemicals.

 Uses advised against
 Not for food, drug, pesticide or biocidal product use

 Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes eye irritation Causes skin irritation May cause respiratory irritation



Precautionary Statements Prevention Wash hands and face thoroughly after handling Wear eye/face protection Wear protective gloves Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse **Eves** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Storage Store in a well-ventilated place Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	> 99.3
Sodium hydroxide	1310-73-2	0.1 - 0.5
Arsine, oxophenyl-	637-03-6	0.05 - 0.2

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.			
Ingestion	Do not induce vomiting. Obtain medical attention.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point	No information available
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions	Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes.				
Environmental Precautions	See Section 12 for additional ecological information.				
Methods for Containment and Clean Soak up with inert absorbent material. Sweep up and shovel into suitable containers for Up disposal.					
	7. Handling a	and storage			

 Handling
 Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Sodium hydroxide	Ceiling: 2 mg/m ³	(Vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³	Ceiling: 2 mg/m ³
		TWA: 2 mg/m ³	Ceiling: 2 mg/m ³	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	J -	-
Physical State		
Appearance		
Odor		
Odor Threshold		
рН		
Melting Point/Range		
Boiling Point/Range		
Flash Point		
Evaporation Rate		
Flammability (solid,gas)		
Flammability or explosive limits		
Upper		
Lower		
Vapor Pressure		
Vapor Density		
Specific Gravity		
Solubility		
Partition coefficient; n-octanol/water		
Autoignition Temperature		
Decomposition Temperature		
Viscosity		

Liquid Clear Odorless No information available 6.5 0 °C / 32 °F 100 °C / 212 °F No information available > 1 (Ether = 1.0) No information available No data available No data available No information available 0.7 1.0 Soluble in water No data available No information available

No information available No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Component Information

Component	Component LD50 Oral LD50 Dermal		LC50 Inhalation		
Water	-	Not listed	Not listed		
Sodium hydroxide	Not listed	LD50 = 1350 mg/kg (Rabbit)	Not listed		
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure_					

Irritation	Irritating to eyes and skin

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium hydroxide	1310-73-2	Not listed	Not listed	Not listed	Not listed	Not listed
Arsine, oxophenyl-	637-03-6	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	d No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effec	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Alg	ae Freshwater Fish	Microtox	Water Flea	
Sodium hydroxide	-	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-	
Persistence and Degrada	ability No info	ormation available			
Bioaccumulation/Accum	nulation No info	ormation available.			
Mobility	No info	ormation available.			
	1:	3. Disposal conside	rations		
Waste Disposal Methods	hazaro	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			
	1	14. Transport inforn	nation		
DOT TDG IATA IMDG/IMO	Not re Not re	Not regulated Not regulated Not regulated Not regulated			
	1	5. Regulatory inform	mation		

International Inventories

TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Х	Х	-	215-185-5	-		Х	Х	Х	Х	Х
Х	Х	-	211-275-3	-		Х	-	Х	Х	Х
	XXX	TSCA DSL X X X X X X X X	X X - X X -	X X - 231-791-2 X X - 215-185-5	X X - 231-791-2 - X X - 215-185-5 - X X - 211-775-2	X X - 231-791-2 - X X - 215-185-5 -	X X - 231-791-2 - X X X - 215-185-5 - X	X X - 231-791-2 - X - X X - 215-185-5 - X X	X X - 231-791-2 - X - X X X - 215-185-5 - X X X	X X - 231-791-2 - X - X

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Not	app	olicable	
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Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Arsine, oxophenyl-	637-03-6	0.05 - 0.2	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

	1101 applicable			
Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium hydroxide	Х	1000 lb	-	-
Arsine, oxophenyl-	-	-	X	-

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

Component		Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide		1000 lb	-
California Proposition 65	This product does not contain any Proposition 65 chemicals		

California Proposition 65

U.S. State Right-to-Know

Not applicable

Regulations

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Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-
Sodium hydroxide	Х	Х	Х	-	Х
Arsine, oxophenyl-	-	Х	Х	Х	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	18-Jan-2018 18-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS