

# SAFETY DATA SHEET

**Issue Date** 16-Aug-2018 **Revision Date** 26-Jan-2024 **Version** 3.6 **Page** 1 / 14

## 1. IDENTIFICATION

**Product identifier** 

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Other means of identification

Product Code(s) 2142001

Safety data sheet number M00848

Recommended use of the chemical and restrictions on use

**Recommended Use** Determination of chlorine. Water Analysis.

Uses advised against None. Restrictions on use None.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

### Classification

**Regulatory Status** 

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

Specific target organ toxicity (repeated exposure)

Category 2

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

### Signal word

Warning



#### **Hazard statements**

H373 - May cause damage to organs through prolonged or repeated exposure

EN / AGHS Page 1/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

Page 2/14

**Precautionary statements** 

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P314 - Get medical advice/attention if you feel unwell

P501 - Dispose of contents/ container to an approved waste disposal plant

## Other Hazards Known

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

### **Mixture**

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Ethylene glycol	107-21-1	3 - 7%	-
Phosphoric acid, disodium salt	7558-79-4	<1%	-
Arsine, oxophenyl-	637-03-6	<0.1%	-

## 4. FIRST AID MEASURES

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** This material will not burn.

EN / AGHS Page 2/14

Product Code(s) 2142001 Issue Date 16-Aug-2018

Version 3.6

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

**Page** 3 / 14

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate **Personal precautions** 

personnel to safe areas.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

See Section 12 for additional ecological information. **Environmental precautions** 

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for containment

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

See section 8 for more information. See section 13 for more information. Reference to other sections

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation.

Conditions for safe storage, including any incompatibilities

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

Not applicable Flammability class

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
	STEL: 50 ppm vapor fraction		NDF
CAS#: 107-21-1		(vacated) Ceiling: 125 mg/m <sup>3</sup>	
	particulate matter, aerosol		

EN / AGHS Page 3/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

Page 4/14

	only TWA: 25 ppm vapor fraction		
Arsine, oxophenyl- CAS#: 637-03-6	-	TWA: 0.5 mg/m <sup>3</sup>	NDF

Appropriate engineering controls

**Engineering Controls** 

Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hand Protection Wear suitable gloves.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection**No special protective equipment required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow

into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

**Physical state** 

Liquid

Appearance aqueous solution

Color colorless

Odor sweet Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

pH 6.7 @ 20 °C

Melting point / freezing point ~ -2 °C / 28.4 °F

Initial boiling point and boiling range > ~ 100 °C / 212 °F

**Evaporation rate** 0.64 (water = 1)

**Vapor pressure** 23.327 mm Hg  $\,/\,$  3.11 kPa at 25 °C  $\,/\,$  77 °F

Relative vapor density 0.03

Specific gravity - VALUE 1 1.033

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

Decomposition temperature No data available

EN / AGHS Page 4/14

**Product Name** PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N **Revision Date** 26-Jan-2024

Page 5/14

Dynamic viscosityNo data availableKinematic viscosityNo data available

Solubility(ies)

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature_
Soluble	> 1000 mg/L	25 °C / 77 °F

### Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

### **Metal Corrosivity**

Steel Corrosion Rate Aluminum Corrosion Rate 0.03 mm/yr / 0 in/yr No data available

### **Volatile Organic Compounds (VOC) Content**

See ingredients information below

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Ethylene glycol	107-21-1	No data available	X
Phosphoric acid, disodium salt	7558-79-4	No data available	-
Arsine, oxophenyl-	637-03-6	No data available	-

## **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No data available
No data available

Oxidizing properties
No data available.

Bulk density
No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

## Chemical stability

Stable under normal conditions.

EN / AGHS Page 5/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

**Page** 6/14

### **Explosion data**

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

### Possibility of hazardous reactions

None under normal processing.

#### **Hazardous polymerization**

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

### Hazardous decomposition products

arsenic compounds. Carbon dioxide. Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** No known effect based on information supplied.

Eye contact No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Symptoms** No information available.

## **Acute toxicity**

Based on available data, the classification criteria are not met

#### **Mixture**

No data available.

### **Ingredient Acute Toxicity Data**

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Arsine, oxophenyl- (<0.1%) CAS#: 637-03-6	Rat LD₅o	70 mg/kg	None reported	None reported	No information available

### **Unknown Acute Toxicity**

0.0045% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

The following values are calculated based on chapter 3.1 of the GHS document

EN / AGHS Page 6/14

Product Name PAO (Phenylarsine Oxide)  $0.0451 \pm 0.0002$  N Revision Date 26-Jan-2024 Page 7/14

ATEmix (oral)	No information available mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Mixture

No data available.

## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	Open Irritation Test	Rabbit	555 mg	None reported	Mild skin irritant	RTECS
Phosphoric acid, disodium salt (<1%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Skin irritant	RTECS
Arsine, oxophenyl- (<0.1%) CAS#: 637-03-6	Existing human experience	Human	None reported	None reported	Corrosive to skin	Internal Data

### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### **Mixture**

No data available.

## Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	Standard Draize Test	Rabbit	500 mg	24 hours	Mild eye irritant	RTECS
Phosphoric acid, disodium salt (<1%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Eye irritant	RTECS

## Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

## Mixture

No data available.

## **Ingredient Sensitization Data**

Test data reported below.

## **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and
EN / AGHS				Page 7/14

**Product Name** PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N **Revision Date** 26-Jan-2024

Page 8 / 14

				sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	Based on human experience	Human	Not confirmed to be a skin sensitizer	IUCLID

### STOT - single exposure

Based on available data, the classification criteria are not met.

#### **Mixture**

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

### **Oral Exposure Route**

## STOT - repeated exposure

May cause damage to organs.

#### Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethylene glycol (3 - 7%)	Human TD∟₀	768 mg/kg	None reported	Gastrointestinal Diarrhea	RTECS
CAS#: 107-21-1	. 225			Brain and Coverings Convulsions or effect on seizure	
				threshold	
				Coma	

### Carcinogenicity

Based on available data, the classification criteria are not met.

## Mixture

No data available.

## **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Ethylene glycol	107-21-1	-	-	-	-
Phosphoric acid, disodium salt	7558-79-4	1	-	1	1
Arsine, oxophenyl-	637-03-6	-	Group 1	-	Х

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

EN / AGHS Page 8/14

**Product Name** PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N **Revision Date** 26-Jan-2024

**Page** 9/14

## Mixture invitro Data

No data available.

## Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	DNA inhibition	Human lymphocyte	320 mmol/L	None reported	Positive test result for mutagenicity	RTECS

### Mixture invivo Data

No data available.

## Substance invivo Data

Test data reported below.

## **Oral Exposure Route**

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	Cytogenetic analysis	Rat	1200 mg/kg	None reported	Positive test result for mutagenicity	RTECS

## Reproductive toxicity

Based on available data, the classification criteria are not met.

### **Mixture**

No data available.

## **Ingredient Reproductive Toxicity Data**

Test data reported below.

### **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ethylene glycol	Mouse	1700 mg/kg	None reported	Effects on Newborn	RTECS
(3 - 7%)	TDLo			Growth statistics (e.g. %	
CAS#: 107-21-1				reduced weight gain)	
				Specific Developmental	
				Abnormalities	
				Hepatobiliary system	
				Musculoskeletal system	

## Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethylene glycol (3 - 7%) CAS#: 107-21-1	Mouse TC <sub>Lo</sub>	1 mg/L	6 hours	Effects on Embryo or Fetus Fetotoxicity (except death e.g. stunted fetus) Effects on Fertility Post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants)	RTECS

EN / AGHS Page 9/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N Revision Date 26-Jan-2024

Page 10 / 14

**Aspiration hazard** 

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity** 0.0045% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

**Mixture** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

**Substance** 

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

Persistence and degradability

**Mixture** 

No data available.

Bioaccumulation

There is no data for this product

**Mixture** 

No data available.

Partition coefficient Not applicable

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient Not applicable

Other adverse effects
No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Special instructions for disposal** Dispose of material in an E.P.A. approved hazardous waste facility.

## 14. TRANSPORT INFORMATION

EN / AGHS Page 10/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N Revision Date 26-Jan-2024

Page 11/14

DOT Not regulated TDG Not regulated Not regulated IATA

No special precautions necessary. Note:

### Additional information

IMDG

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods.

If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

Not regulated

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

**National Inventories** 

Complies **TSCA** DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **International Inventories**

**EINECS/ELINCS** Complies Does not comply **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies Complies **TCSI** Complies **AICS** Complies **NZIoC** 

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## **US Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ethylene glycol (CAS #: 107-21-1)	1.0
Arsine, oxophenyl- (CAS #: 637-03-6)	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No

Page 11/14 EN / AGHS

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

Page 12 / 14

Reactive Hazard No

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid, disodium salt 7558-79-4	5000 lb	-	-	X
Arsine, oxophenyl- 637-03-6	-	X	-	-

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	5000 lb	-	RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ
Phosphoric acid, disodium salt	5000 lb	-	RQ 5000 lb final RQ
7558-79-4			RQ 2270 kg final RQ

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65	
Ethylene glycol (CAS #: 107-21-1)	Developmental	

**WARNING:** This product can expose you to chemicals including Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information, go to <a href="http://www.P65Warnings.ca.gov">http://www.P65Warnings.ca.gov</a>

## U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	Х	X	X
Phosphoric acid, disodium salt 7558-79-4	Х	X	Х
Arsine, oxophenyl- 637-03-6	X	-	Х

### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA	
Ethylene glycol	180.0920	-	
Phosphoric acid, disodium salt	180.0910	21 CFR 182.1778,21 CFR 182.6290,21 CFR 182.6778,21 CFR 182.8778	

EN / AGHS Page 12/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

Page 13 / 14

## 16. OTHER INFORMATION. INCLUDING DATE OF PREPARATION OF THE LAST REVISION

### **Special Comments**

None

### **Additional information**

### **Global Automotive Declarable Substance List (GADSL)**

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Ethylene glycol 107-21-1	Declarable Substance (FI)	0.1 %
Arsine, oxophenyl-	Declarable Substance (LR)	0.01 %
637-03-6	Prohibited Substance (LR)	0.05 %
	Prohibited Substance (FA)	
	Declarable Substance (FA)	

### NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical
				properties -
HMIS	Health hazards - 1*	Flammability - 0	Physical hazards - 0	Personal protection -
				X
				- I

## Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH (American Conference of Governmental Industrial Hygienists)
ATSDR (Agency for Toxic Substances and Disease Registry)
CCRIS (Chemical Carcinogenesis Research Information System)

CDC (Center for Disease Control)

CEPA CEPA (Canadian Environmental Protection Agency)

CICAD CICAD (Concise International Chemical Assessment Documents)

ECHA ECHA (The European Chemicals Agency)
EEA EEA (European Environment Agency)
EPA EPA (Environmental Protection Agency)

ERMA (New Zealands Environmental Risk Management Authority)

ECOSARS Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERIS INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM IPCS INCHEM (International Programme on Chemical Safety)
IUCLID IUCLID (The International Uniform Chemical Information Database)
NITE Japan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

EN / AGHS Page 13/14

Product Name PAO (Phenylarsine Oxide) 0.0451 ± 0.0002 N

Revision Date 26-Jan-2024

Page 14 / 14

## Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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Revision Note None

**Disclaimer** 

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

HACH COMPANY@2023

**End of Safety Data Sheet** 

EN / AGHS Page 14/14