



Be Right™

# SAFETY DATA SHEET

Issue Date 16-Aug-2018

Revision Date 26-Jan-2024

Version 3.6

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## 1. IDENTIFICATION

### Product identifier

**Product Name** Phenylarsine Oxide Standard Solution 0.00564 N

### Other means of identification

**Product Code(s)** 199901

**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

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### 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

#### Note to physicians

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the 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.

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**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

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

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

### Environmental precautions

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

### Methods and material for containment and cleaning up

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

**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.

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

## 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.

**Flammability class** Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical name   | ACGIH TLV                   | OSHA PEL                  | NIOSH |
|-----------------|-----------------------------|---------------------------|-------|
| Ethylene glycol | STEL: 50 ppm vapor fraction | (vacated) Ceiling: 50 ppm | NDF   |

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|                                      |   |  |     |
|--------------------------------------|---|--|-----|
| CAS#: 107-21-1                       | STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only<br>TWA: 25 ppm vapor fraction | (vacated) Ceiling: 125 mg/m <sup>3</sup> |     |
| Arsine, oxophenyl-<br>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**

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are 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**

|                       |                   |
|-----------------------|-------------------|
| <b>Physical state</b> | Liquid            |
| <b>Appearance</b>     | aqueous solution  |
| <b>Odor</b>           | sweet             |
| <b>Color</b>          | colorless         |
| <b>Odor threshold</b> | No data available |

| <u>Property</u>  | <u>Values</u>                            | <u>Remarks • Method</u> |
|--|--|-------------------------|
| <b>Molecular weight</b>                                | No data available                        |                         |
| <b>pH</b>  | 6.7                                      | @ 20 °C                 |
| <b>Melting point / freezing point</b>                  | ~ -2 °C / 28.4 °F                        |                         |
| <b>Initial boiling point and boiling range</b>         | > ~ 100 °C / 212 °F                      |                         |
| <b>Evaporation rate</b>                                | 0.64 (water = 1)                         |                         |
| <b>Vapor pressure</b>                                  | 23.327 mm Hg / 3.11 kPa at 25 °C / 77 °F |                         |
| <b>Relative vapor density</b>                          | 0.03                                     |                         |
| <b>Specific gravity - VALUE 1</b>                      | 1.033                                    |                         |
| <b>Partition coefficient</b>                           | Not applicable                           |                         |
| <b>Soil Organic Carbon-Water Partition Coefficient</b> | Not applicable                           |                         |
| <b>Autoignition temperature</b>                        | No data available                        |                         |

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Decomposition temperature No data available

Dynamic viscosity No data available

Kinematic viscosity No 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 | Solubility  | Solubility Temperature |
|---------------|---------------------------|-------------|------------------------|
| Acid          | Soluble                   | > 1000 mg/L | 25 °C / 77 °F          |

**Other information**

**Metal Corrosivity**

Steel Corrosion Rate

0.03 mm/yr / 0 in/yr

Aluminum Corrosion Rate

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 limit

No data available

Lower explosion limit

No data available

**Flammable properties**

Flash point

No data available

**Flammability Limit in Air**

Upper flammability limit:

No data available

Lower flammability limit:

No data available

**Oxidizing properties**

No data available.

**Bulk density**

No data available

**10. STABILITY AND REACTIVITY**

**Reactivity**

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Not applicable.

**Chemical stability**

Stable under normal conditions.

**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%)<br>CAS#: 637-03-6 | Rat<br>LD <sub>50</sub> | 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

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>ATEmix (oral)</b>                 | No information available mg/kg |
| <b>ATEmix (dermal)</b>               | No information available       |
| <b>ATEmix (inhalation-dust/mist)</b> | No information available       |
| <b>ATEmix (inhalation-vapor)</b>     | No information available       |
| <b>ATEmix (inhalation-gas)</b>       | 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<br>(3 - 7%)<br>CAS#: 107-21-1                 | Open Irritation Test         | Rabbit  | 555 mg        | None reported | Mild skin irritant | RTECS  |
| Phosphoric acid,<br>disodium salt<br>(<1%)<br>CAS#: 7558-79-4 | Standard Draize<br>Test      | Rabbit  | 500 mg        | 24 hours      | Skin irritant      | RTECS  |
| Arsine, oxophenyl-<br>(<0.1%)<br>CAS#: 637-03-6               | Existing human<br>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<br>(3 - 7%)<br>CAS#: 107-21-1                 | Standard Draize<br>Test | Rabbit  | 500 mg        | 24 hours      | Mild eye irritant | RTECS  |
| Phosphoric acid,<br>disodium salt<br>(<1%)<br>CAS#: 7558-79-4 | Standard Draize<br>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.

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### Ingredient Sensitization Data

Test data reported below.

#### Skin Sensitization Exposure Route

| Chemical name                                 | Test method               | Species | Results                               | Key literature references and sources for data |
|---|---------------------------|---------|---------------------------------------|--|
| Ethylene glycol<br>(3 - 7%)<br>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<br>(3 - 7%)<br>CAS#: 107-21-1 | Human<br>TD <sub>Lo</sub> | 768 mg/kg     | None reported | <b>Gastrointestinal</b><br>Diarrhea<br><b>Brain and Coverings</b><br>Convulsions or effect on seizure threshold<br>Coma | RTECS  |

#### 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 | -     | -       | -   | -    |
| Arsine, oxophenyl-             | 637-03-6  | -     | Group 1 | -   | X    |

#### Legend



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|   |                |
|---|----------------|
| 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.

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

**Inhalation (Dust/Mist) Exposure Route**

| Chemical name | Endpoint | Reported | Exposure | Toxicological effects | Key literature references and |
|---------------|----------|----------|----------|-----------------------|-------------------------------|
|---------------|----------|----------|----------|-----------------------|-------------------------------|

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

#### 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

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

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**products** 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

**DOT** Not regulated

**TDG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**Note:** No special precautions necessary.

#### **Additional information**

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:

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**

**TSCA** Complies

**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

**ENCS** Does not comply

**IECSC** Complies

**KECL** Complies

**PICCS** Complies

**TCSI** Complies

**AICS** Complies

**NZIoC** Complies

**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

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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  |
| 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<br>7558-79-4 | 5000 lb                     | -                      | -                         | X                          |
| Arsine, oxophenyl-<br>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<br>107-21-1                 | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Phosphoric acid, disodium salt<br>7558-79-4 | 5000 lb                  | -              | RQ 5000 lb final RQ<br>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 <http://www.P65Warnings.ca.gov>

**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<br>107-21-1                 | X          | X             | X            |
| Phosphoric acid, disodium salt<br>7558-79-4 | X          | X             | X            |
| Arsine, oxophenyl-<br>637-03-6              | X          | -             | X            |

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### 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 |

## 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 Thresholds |
|--------------------------------|--|--|
| Ethylene glycol<br>107-21-1    | Declarable Substance (FI)  | 0.1 %  |
| Arsine, oxophenyl-<br>637-03-6 | Declarable Substance (LR)<br>Prohibited Substance (LR)<br>Prohibited Substance (FA)<br>Declarable Substance (FA) | 0.01 %<br>0.05 %                                       |

### 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 -<br>X<br>-I   |

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

|             |   |
|-------------|---|
| ACGIH       | ACGIH (American Conference of Governmental Industrial Hygienists)                           |
| ATSDR       | ATSDR (Agency for Toxic Substances and Disease Registry)                                    |
| CCRIS       | CCRIS (Chemical Carcinogenesis Research Information System)                                 |
| CDC         | 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        | ERMA (New Zealand's 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        | 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         | NIH (National Institutes of Health)   |

**Product Code(s)** 199901

**Product Name** Phenylarsine Oxide Standard Solution 0.00564  
N

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|            |   |
|------------|---|
| 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       | OSHA (Occupational Safety and Health Administration of the US Department of Labor)  |
| PEEN       | PEEN (Pan European Ecological Network)  |
| RTECS      | 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        | WHO (World Health Organization)   |

**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                         |         |   |

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**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.

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**End of Safety Data Sheet**