$The following \ list \ contains \ the \ Material \ Safety \ Data \ Sheets \ you \ requested. \ Please \ scoll \ down \ to \ view \ the \ requested \\ MSDS(s).$ 

Product	MSDS	Distributor	Format	Language	Quantity
199917	N/A	Hach Company	OSHA	English	1
199917	N/A	Hach Company	ROWGHS	English	1

Total Enclosures: 2

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

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Phenylarsine Oxide Standard Solution 0.00564 N

Catalog Number: 199917

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

MSDS Number: M00848 Chemical Name: Not applicable CAS No.: Not applicable

Chemical Formula: Not applicable Chemical Family: Not applicable

Hazard: Causes eye burns. May cause irritation.

Date of MSDS Preparation:

Day: 25
Month: 06
Year: 2010

Emergency Telephone Numbers: (Medical and Transportation) (303) 623-5716 24 Hour Serv

(303) 623-5716 24 Hour Service (515)232-2533 8am - 4pm CST

MSDS No: M00848

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

# Phenylarsine Oxide

CAS No.: 637-03-6

TSCA CAS Number: 637-03-6

Percent Range: < 0.1

**Percent Range Units:** weight / volume **LD50:** Oral rat LD50 = 70 mg/kg

*LC50:* None reported *TLV:* Not applicable *PEL:* 0.5 mg/m<sup>3</sup> (As)

Hazard: Toxic. Causes burns. Contains a recognized carcinogen.

# **Demineralized Water**

CAS No.: 7732-18-5

**TSCA CAS Number:** 7732-18-5 **Percent Range:** 90.0 - 100.0

Percent Range Units: volume / volume

*LD50:* None reported *LC50:* None reported *TLV:* Not established *PEL:* Not established

Hazard: No effects anticipated.

# Other components, each

CAS No.: Not applicable

TSCA CAS Number: Not applicable

Percent Range: < 1.0

Percent Range Units: weight / volume

*LD50:* Not applicable *LC50:* Not applicable *TLV:* Not established

PEL: Not established

*Hazard:* Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

#### **Ethylene Glycol**

CAS No.: 107-21-1

**TSCA CAS Number:** 107-21-1 **Percent Range:** 1.0 - 10.0

Percent Range Units: volume / volume

LD50: Oral rat LD50 = 4700 mg/kg; oral human LDLo = 398 mg/kg

*LC50:* Inhalation rat LC50 = 10876 mg/kg *TLV:* 100 mg/m3 Ceiling (Aerosol only)

**PEL:** 50 ppm ceiling **Hazard:** Toxic.

## 3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Clear, colorless liquid

**Odor:** Sweet

CAUSES EYE BURNS MAY CAUSE SKIN IRRITATION

HMIS:

Health: 3
Flammability: 0
Reactivity: 0

**Protective Equipment:** X - See protective equipment, Section 8.

NFPA:

Health: 3 Flammability: 0 Reactivity: 0

Symbol: Not applicable Potential Health Effects:

Eye Contact: Causes eye burns.
Skin Contact: May cause irritiation
Skin Absorption: None reported
Target Organs: None reported

*Ingestion:* May cause: central nervous system effects drunkenness nausea vomiting abdominal pain convulsions

liver damage kidney damage

**Target Organs:** Central nervous system Liver Kidneys **Inhalation:** May cause: irritation of nose and throat

Target Organs: None reported

Medical Conditions Aggravated: Allergies or sensitivity to arsenic Pre-existing: Eye conditions Liver conditions

Kidney conditions

Chronic Effects: Chronic overexposure may cause liver damage kidney damage central nervous system effects

Cancer / Reproductive Toxicity Information:

This product does NOT contain any OSHA listed carcinogens.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: Contains: an experimental teratogen.

Toxicologically Synergistic Products: None reported

## 4. FIRST AID

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with soap and plenty of water for 15 minutes. Call physician if irritation develops. Ingestion (First Aid): Do not induce vomiting. Give 1-2 glasses of water. Call physician immediately. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air.

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Flammable Properties: Material will not burn. During a fire, corrosive and toxic gases may be generated by thermal

decomposition.

Flash Point: Not applicable Method: Not applicable Flammability Limits:

Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable Autoignition Temperature: Not applicable

*Hazardous Combustion Products:* This material will not burn. *Fire / Explosion Hazards:* This product will not burn or explode.

Static Discharge: None reported. Mechanical Impact: None reported

Extinguishing Media: Use media appropriate to surrounding fire conditions

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective

gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Spill Response 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.

**Containment Technique:** Releases of this material may contaminate the environment. Cover spilled solid material with sand or other inert material. Stop spilled material from being released to the environment. Dike large spills to keep spilled material from entering sewage and drainage systems or bodies of water.

*Clean-up Technique:* Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Dispose of material in government approved hazardous waste facility. Decontaminate the area of the spill with a soap solution.

**Evacuation Procedure:** Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when: a gallon or more of liquid is spilled. If conditions warrant, increase the size of the evacuation.

*Special Instructions (for accidental release):* Product is regulated as RCRA hazardous waste in the U.S. Mixture contains a component which is regulated in the US as a hazardous air pollutant.

304 EHS RQ (40 CFR 355): Not applicable D.O.T. Emergency Response Guide Number: None

# 7. HANDLING / STORAGE

*Handling:* Avoid contact with eyes skin Do not breathe mist or vapors. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Protect from: light heat Flammability Class: Not applicable

# 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields Skin Protection: disposable latex gloves lab coat Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin Do not breathe: mist/vapor Wash thoroughly after handling.

Protect from: light heat *TLV*: Not established *PEL*: Not established

## 9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

Physical State: Liquid

Molecular Weight: Not applicable

*Odor:* Sweet *pH:* 6.7

Vapor Pressure: Not determined Vapor Density (air = 1): Not determined Boiling Point: >100° C (>212° F) Melting Point: Not determined

Specific Gravity/ Relative Density (water = 1; air =1): 1.033

Evaporation Rate (water = 1): 0.64

Volatile Organic Compounds Content: Not applicable Partition Coefficient (n-octanol / water): Not applicable

Solubility:

Water: Miscible
Acid: Miscible
Other: Not determined
Metal Corrosivity:
Steel: 0.001 in/yr

Aluminum: Not determined

#### 10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Conditions to Avoid: Heating to decomposition. Exposure to direct sunlight.

Reactivity / Incompatibility: Incompatible with: oxidizers

Hazardous Decomposition: Heating to decomposition releases: arsenic compounds carbon dioxide carbon monoxide

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:

*LD50:* None reported *LC50:* None reported

Dermal Toxicity Data: None reported

Skin and Eye Irritation Data: Ethylene Glycol: Eye rabbit 500 mg/24H MILD, Skin rabbit 555 mg open MILD *Mutation Data:* Ethylene Glycol: DNA inhibition - human lymphocyte 320 mmol/l, Mutation in somatic mammalian cells - mouse - lymphocyte 100 mmol/l

Reproductive Effects Data: Ethylene Glycol: Oral rat TDLo = 50 mg/kg (6-15 days pregnant) musculoskeletal, blood and lymphatic system abnormalities, Oral rat TDLo = 25 mg/kg (6-15 days pregnant) fetotoxicity - maternal effects - litter size

*Ingredient Toxicological Data:* Ethylene Glycol: Oral rat LD50 = 4700 mg/kg, Oral human LDLo = 398 mg/kg, Inhalation rat LC50 = 10876 mg/kg, Skin rabbit LD50 = 9530 mg/kg; Phenol Arsine Oxide: Oral rat LD50 = 70 mg/kg

#### 12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: --

No ecological data available for the ingredients of this product.

#### 13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: D004

Special Instructions (Disposal): Dispose of material in an E.P.A. approved hazardous waste facility.

*Empty Containers:* Rinse three times with an appropriate solvent. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Dispose of empty container as normal trash. *NOTICE (Disposal):* These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

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# 14. TRANSPORT INFORMATION

D.O.T.:

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D.O.T. Proper Shipping Name: Not Currently Regulated
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DOT Hazard Class: NA DOT Subsidiary Risk: NA DOT ID Number: NA DOT Packing Group: NA

*I.C.A.O.*:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

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ICAO Hazard Class: NA ICAO Subsidiary Risk: NA ICAO ID Number: NA ICAO Packing Group: NA

I.M.O.:

I.M.O. Proper Shipping Name: Not Currently Regulated

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I.M.O. Hazard Class: NA I.M.O. Subsidiary Risk: NA I.M.O. ID Number: NA I.M.O. Packing Group: NA

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 set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

## U.S. Federal Regulations:

**O.S.H.A.:** This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

*E.P.A.*:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard S.A.R.A. Title III Section 313 (40 CFR 372): This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA.

Ethylene Glycol

302 (EHS) TPQ (40 CFR 355): Not applicable

304 CERCLA RQ (40 CFR 302.4): Ethylene Glycol 5000 lbs.

304 EHS RQ (40 CFR 355): Not applicable

Clean Water Act (40 CFR 116.4): Not applicable

RCRA: Contains RCRA regulated substances. See Section 13, EPA Waste ID Number.

C.P.S.C.: Not applicable

State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.

Identification of Prop. 65 Ingredient(s): None

California Perchlorate Rule CCR Title 22 Chap 33:

Trade Secret Registry: Not applicable

National Inventories:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

TSCA CAS Number: Not applicable

# 16. OTHER INFORMATION

Intended Use: Determination of chlorine

*References:* Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. Outside Testing. In-house information.

Revision Summary: Updates in Section(s) 14,

#### Legend:

ND - Not Determined w/v - weight/volume NV - Not Available v/v - volume/volume

**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.

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

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

Catalog Number: 199917

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

MSDS Number: M00848 Chemical Name: Not applicable CAS Number: Not applicable

Additional CAS No. (for hydrated forms): Not applicable

Chemical Formula: Not applicable Chemical Family: Not applicable Intended Use: Determination of chlorine

Emergency Telephone Numbers: (Medical and Transportation) (303) 623-5716 24 Hour Service (515)232-2533 8am - 4pm CST

MSDS No: M00848

2. HAZARDS IDENTIFICATION

#### GHS Classification:

*Hazard categories:* Acute Toxicity: Acute Tox. 2-Derm Skin Corrosion/Irritation: Skin Irrit. 2 Serious Eye Damage/Eye Irritation: Eye Irrit. 2 Hazardous to the Aquatic Environment: Aquatic Chronic 3

#### GHS Label Elements:







*Hazard statements:* Fatal in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause damage to liver by inhalation. Harmful to aquatic life with long lasting effects.

*Precautionary statements:* Handle environmental release according to local, state, federal, provincial requirements. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Dispose of contents/container according to state, local, federal or national regulations.

#### HMIS:

Health: 3\* Flammability: 0 Reactivity: 0

*Protective Equipment:* X - See protective equipment, Section 8.

NFPA: Health: 3 Flammability: 0

Reactivity: 0

*Symbol:* Not applicable *WHMIS Hazard Classification:* Class D, Division 2, Subdivision B - Toxic material (other toxic effects)

WHMIS Symbols: Other Toxic Effects

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

## Hazardous Components according to GHS:

# **Ethylene Glycol**

CAS Number: 107-21-1 Chemical Formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>

GHS Classification: Acute Tox. 4-Orl, H302; Skin Irrit. 3, H316; Eye Irrit. 2A, H319; STOT Single 1, H370

**Percent Range:** 1.0 - 10.0

Percent Range Units: volume / volume

**PEL:** Not established **TLV:** 10 mg/m<sup>3</sup> as particulate

WHMIS Symbols: Acute PoisonOther Toxic Effects

## Phenylarsine Oxide

CAS Number: 637-03-6 Chemical Formula: C<sub>6</sub>H<sub>5</sub>AsO

GHS Classification: Acute Tox. Orl. 3, H301; Acute Tox. Inh. 3, H331; Aquatic Ch. 1, H410

Percent Range: <0.2

Percent Range Units: weight / volume

**PEL:** 0.5 mg/m<sup>3</sup> (As) **TLV:** Not applicable

WHMIS Symbols: Acute PoisonCorrosive Hazardous Components according to GHS: No

## **Demineralized Water**

CAS Number: 7732-18-5 Chemical Formula: H<sub>2</sub>O

*GHS Classification:* Not hazardous *Percent Range:* 90.0 - 100.0

Percent Range Units: volume / volume

**PEL:** Not established **TLV:** Not established

WHMIS Symbols: Not applicable

# Other components, each

CAS Number: Not applicable Chemical Formula: Not applicable. GHS Classification: Not applicable

Percent Range: < 1.0

Percent Range Units: weight / volume

**PEL:** Not established **TLV:** Not established

WHMIS Symbols: Not applicable

# 4. FIRST AID MEASURES

General Information: In the event of exposure, show this Material Safety Data Sheet and label (where possible) to a doctor

Advice to doctor: Treat symptomatically.

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.

Skin Contact (First Aid): Wash skin with soap and plenty of water for 15 minutes. Call physician if irritation develops.

Inhalation: Remove to fresh air.

*Ingestion (First Aid):* Do not induce vomiting. Give 1-2 glasses of water. Call physician immediately. Never give anything by mouth to an unconscious person.

# **5. FIRE FIGHTING MEASURES**

*Flammable Properties:* Material will not burn. During a fire, corrosive and toxic gases may be generated by thermal decomposition.

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective

gear.

Extinguishing Media: Use media appropriate to surrounding fire conditions

Extinguishing Media NOT To Be Used: Not applicable

Fire / Explosion Hazards: This product will not burn or explode. Hazardous Combustion Products: This material will not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Spill Response 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.

**Containment Technique:** Releases of this material may contaminate the environment. Cover spilled solid material with sand or other inert material. Stop spilled material from being released to the environment. Dike large spills to keep spilled material from entering sewage and drainage systems or bodies of water.

*Clean-up Technique:* If permitted by regulation, Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Dispose of material in government approved hazardous waste facility. Decontaminate the area of the spill with a soap solution. Otherwise, Pick up spill for disposal and place in a closed container Dispose of in accordance with local, state and federal regulations or laws.

**Evacuation Procedure:** Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when: a gallon or more of liquid is spilled. If conditions warrant, increase the size of the evacuation.

**DOT Emergency Response Guide Number:** Not applicable

#### 7. HANDLING AND STORAGE

*Handling:* Avoid contact with eyes skin Do not breathe mist or vapors. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Protect from: light heat Flammability Class: Not applicable

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields Skin Protection: disposable latex gloves lab coat Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin Do not breathe: mist/vapor Wash thoroughly after handling.

Protect from: light heat *TLV*: Not established *PEL*: Not established

For Occupational Exposure Limits (OEL) for ingredients, see section 3 - Composition/Information on Ingredients.:

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

**Physical State:** Liquid

Molecular Weight: Not applicable

Odor: Sweet

Odor Threshold: Not determined

**pH:** 6.7

Metal Corrosivity:

Corrosivity Classification: Not classified as corrosive to metals according to GHS criteria.

Steel: 0.001 in/yr

Aluminum: Not determined

Specific Gravity/Relative Density (water = 1; air =1): 1.033

Viscosity: Not determined

Solubility:

Water: Miscible Acid: Miscible Other: Not determined

**Partition Coefficient (n-octanol / water):** Not applicable

Coefficient of Water / Oil: Not applicable

Melting Point: Not determined

**Decomposition Temperature:** Not applicable **Boiling Point:** >  $100 \,^{\circ} \,^{$ 

Volatile Organic Compounds Content: Not applicable

Flammable Properties: Material will not burn. During a fire, corrosive and toxic gases may be generated by thermal

decomposition.

Flash Point: Not applicable Method: Not applicable Flammability Limits:

Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable Autoignition Temperature: Not applicable

Explosive Properties:

Not classified according to GHS criteria.

Oxidizing Properties:

Not classified according to GHS criteria.

Reactivity Properties:

Not classifed as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

Gas under Pressure:

Not classified according to GHS criteria.

## 10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

*Mechanical Impact:* None reported *Static Discharge:* None reported.

**Reactivity / Incompatibility:** Incompatible with: oxidizers

Hazardous Decomposition: Heating to decomposition releases: arsenic compounds carbon dioxide carbon monoxide

Conditions to Avoid: Heating to decomposition. Exposure to direct sunlight.

## 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, Metabolism and Distribution: No information available for mixture.

Toxicologically Synergistic Products: None reported

Acute Toxicity: Based on classification principles, the classification criteria are not met.

ATE (mix) LD50 = 9064 mg/Kg

ATE (mix) Dermal LD50 = 110 mg/Kg

Specific Target Organ Toxicity - Single Exposure (STOT-SE): Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity - Repeat Exposure (STOT-RE): Based on classification principles, the classification criteria are not met.

Skin Corrosion/Irritation: Irritating to skin.

PAO: Corrosive to Skin; Ethylene Glycol: Skin rabbit 555 mg open MILD

**Eve Damage:** Irritating to eyes.

PAO: Corrosive to Eyes; Ethylene Glycol: Eye rabbit 500 mg/24H MILD

Sensitization: Based on classification principles, the classification criteria are not met.

CMR Effects/Properties (carcinogenic, mutagenic or toxic to reproduction): No germ cell mutagenicity, carcinogenicity or reproductive toxicity data found.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

This product does NOT contain any OSHA listed carcinogens.

Symptoms/Effects:

Ingestion: May cause: central nervous system effects drunkenness nausea vomiting abdominal pain weakness

convulsions liver damage kidney damage

Inhalation: May cause: irritation of nose and throat

Skin Absorption: None Reported

Chronic Effects: Chronic overexposure may cause liver damage kidney damage central nervous system effects

Medical Conditions Aggravated: Allergies or sensitivity to arsenic Pre-existing: Eye conditions Liver conditions Kidney

conditions

#### 12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product. Based on classification principles, not classified as hazardous to the environment.

*Ingredient Ecological Information:* PAO: 168 hr Hyallela azteca LC50 = 0.484 mg/L; Ethylene Glycol: 24 hr Goldfish LC50 = 5000 mg/L; 96 hr Rainbow trout LC50 = 18500 mg/L; 48 hr Daphnia magna LC50 = 6900 mg/L

#### 13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: D004

Special Instructions (Disposal): Dispose of material in an E.P.A. approved hazardous waste facility.

*Empty Containers:* Rinse three times with an appropriate solvent. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste. Dispose of empty container as normal trash.

**NOTICE** (*Disposal*): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

## 14. TRANSPORT INFORMATION

D.O.T.:

D.O.T. Proper Shipping Name: Not Currently Regulated

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Hazard Class: NA Subsidiary Risk: NA ID Number: NA Packing Group: NA

*T.D.G.:* 

Proper Shipping Name: Not Currently Regulated

--

Hazard Class: NA Subsidiary Risk: NA UN Number/PIN: NA Packing Group: NA

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

\_\_

Hazard Class: NA Subsidiary Risk: NA ID Number: NA Packing Group: NA

*I.M.O.*:

Proper Shipping Name: Not Currently Regulated

--

Hazard Class: NA Subsidiary Risk: NA ID Number: NA Packing Group: NA

**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 set or kit, the classification given above applies. If the item IS

part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

# 15. REGULATORY INFORMATION

#### U.S. Federal Regulations:

*O.S.H.A.:* This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

#### *E.P.A.*:

S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard S.A.R.A. Title III Section 313 (40 CFR 372): This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA.

Ethylene Glycol

302 (EHS) TPO (40 CFR 355): Not applicable

304 CERCLA RQ (40 CFR 302.4): Ethylene Glycol 5000 lbs.

304 EHS RQ (40 CFR 355): Not applicable

Clean Water Act (40 CFR 116.4): Not applicable

RCRA: Contains RCRA regulated substances. See Section 13, EPA Waste ID Number.

## State Regulations:

California Prop. 65: No Prop. 65 listed chemicals are present in this product.

Identification of Prop. 65 Ingredient(s): None

California Perchlorate Rule CCR Title 22 Chap 33: Not applicable

Trade Secret Registry: Not applicable

#### National Inventories:

U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).

CAS Number: Not applicable

Canadian Inventory Status: All ingredients of this product are DSL Listed.

EEC Inventory Status: All ingredients used to make this product are listed on EINECS / ELINCS.

Australian Inventory (AICS) Status: All ingredients are listed.

New Zealand Inventory (NZIoC) Status: All components either listed or exempt.

Korean Inventory (KECI) Status: All components of this product are either listed, listed as the anhydrous compound or exempt.

Japan (ENCS) Inventory Status: All components either listed or exempt.

China (PRC) Inventory (MEP) Status: All components either listed or exempt.

## 16. OTHER INFORMATION

**References:** Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. Outside Testing. In-house information.

Complete Text of H phrases referred to in Section 3:

Revision Summary: . Updates in Section(s) 3, 11,

Date of MSDS Preparation:

**Day:** 10 **Month:** July **Year:** 2014

MSDS Prepared: MSDS prepared by Product Compliance Department extension 3350

**CCOHS Evaluation Note:** 

#### Legend:

NA - Not Applicable w/w - weight/weight
ND - Not Determined w/v - weight/volume
NV - Not Available v/v - volume/volume

**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.

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