

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product form : Mixture
 Product name : Additive B
 Product code : ADDB
 Synonyms : ADDB

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use

1.3. Details of the supplier of the safety data sheet

PCS Sales (USA), Inc.
 1101 Skokie Blvd.
 Suite 400
 Northbrook, IL 60062
 T 800-241-6908 / 847-849-4200

Suite 500
 122 1st Avenue South
 Saskatoon, Saskatchewan Canada S7K7G3
 T 800-667-0403 (Canada) / 800-667-3930 (USA)

SDS@PotashCorp.com - www.PotashCorp.com

1.4. Emergency telephone number

Emergency number : 800-424-9300
 CHEMTREC

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1A H314
 Eye Dam. 1 H318
 STOT SE 3 H335
 STOT RE 1 H372
 Aquatic Acute 1 H400

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

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Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H335 - May cause respiratory irritation H372 - Causes damage to organs (liver) through prolonged or repeated exposure H400 - Very toxic to aquatic life
Precautionary statements (GHS-US)	: P260 - Do not breathe fume, mist, vapours, spray P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear eye protection, face protection, protective gloves, protective clothing P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor P312 - Call a POISON CENTER or doctor if you feel unwell P363 - Wash contaminated clothing before reuse P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container according to local, regional, national, and international regulations

2.3. Other hazards

Hazardous to the aquatic environment

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Phosphoric acid	(CAS No.) 7664-38-2	71 - 72	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Copper Carbonate	(CAS No.) 12069-69-1	2.5 - 3	STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 1, H400

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Seek immediate medical advice. Symptoms may be delayed.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse immediately with plenty of water (for at least 15 minutes). Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or persists.
- First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Corrosive. Causes burns.
- Symptoms/injuries after inhalation : Causes severe respiratory irritation if inhaled. Symptoms may include: Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.
- Symptoms/injuries after skin contact : Contact may cause immediate severe irritation progressing quickly to chemical burns.
- Symptoms/injuries after eye contact : Contact may cause immediate severe irritation progressing quickly to chemical burns. Can cause blindness.
- Symptoms/injuries after ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.
- Chronic symptoms : Repeated or prolonged inhalation may damage lungs. Prolonged and repeated contact will eventually cause permanent tissue damage. Repeated excessive exposure may have harmful effects on the liver.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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Unsuitable extinguishing media : Do not get water inside containers. Do not apply water stream directly at source of leak. Do not use a heavy water stream. A direct water stream will cause violent splattering and generation of heat.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Under conditions of fire this material may produce: Oxides of phosphorus. Phosphine. Oxides of copper.

Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions : Keep upwind. Use water spray or fog for cooling exposed containers. If water is added to concentrated acid, violent splattering can occur, and considerable heat may be generated. Cool non-leaking, fire-exposed containers with water spray.

Protection during firefighting : Firefighters must use full bunker gear including NIOSH-approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion and decomposition products.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Stop leak if safe to do so. Eliminate ignition sources. Evacuate unnecessary personnel. Ventilate area. Keep upwind.

6.1.2. For emergency responders

Protective equipment : Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Stop leak if safe to do so. Eliminate ignition sources. Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. COAST GUARD NATIONAL RESPONSE CENTER at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300. In other countries call CHEMTREC at (International code) +1-703-527-3887.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or inert absorbents to prevent migration and entry into sewers or streams. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

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Methods for cleaning up : Ventilate area. Small quantities of liquid spill: take up in non-combustible inert absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labelled container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal.

Liquid spill: neutralize with powdered limestone or sodium bicarbonate.

Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Wear recommended personal protective equipment. Ensure there is adequate ventilation. Keep away from heat and open flame. Employ good maintenance practices to prevent leaks. Use good process control measures to prevent releases. Do not add water to acid. When diluting, always add acid to water. Causes severe burns.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials : Bases. Aluminum. Copper. Mild steel. Brass. Bronze.

Prohibitions on mixed storage : Keep away from (strong) bases.

Storage area : Store in dry, cool area. Store in a well-ventilated place. Keep away from combustible materials. Diking of storage tanks is recommended.

7.3. Specific end use(s)

Industrial use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)		
USA ACGIH	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
USA NIOSH	IDLH	1000 mg/m ³
USA NIOSH	TWA	1 mg/m ³ / 3 mg/m ³ (STEL)
USA OSHA	TWA	1 mg/m ³
Alberta	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
British Columbia	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Manitoba	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)

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Phosphoric acid (7664-38-2)		
New Brunswick	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Newfoundland & Labrador	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Northwest Territories	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Nova Scotia	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Nunavut	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Ontario	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Prince Edward Island	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Quebec	TWAEV / STEV	1 mg/m ³ (TWAEV), 3 mg/m ³ (STEV)
Saskatchewan	TWA / STEL	1 mg/m ³ (TWA), 3 mg/m ³ (STEL)
Yukon	TWA / STEL	1 mg/m ³ (TWA), 1 mg/m ³ (STEL)

Copper (7440-50-8)		
USA ACGIH	TWA	0.2 mg/m ³ (Fume)
USA NIOSH	IDLH	100 mg/m ³ (dust, mist, fume)
USA NIOSH	TWA	1 mg/m ³ (dust, mist); 0.1 mg/m ³ (fume)
USA OSHA	TWA	1 mg/m ³ (dust, mist); 0.1 mg/m ³ (fume)
Alberta	TWA	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume)
British Columbia	TWA	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume)
Manitoba	TWA	0.2 mg/m ³ (fume)
New Brunswick	TWA	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume)
Newfoundland & Labrador	TWA	0.2 mg/m ³ (fume)
Northwest Territories	TWA / STEL	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume) TWA 2 mg/m ³ (dust, mist); 0.6 mg/m ³ (fume) STEL
Nova Scotia	TWA	0.2 mg/m ³ (fume)
Nunavut	TWA / STEL	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume) TWA 2 mg/m ³ (dust, mist); 0.6 mg/m ³ (fume) STEL
Ontario	TWA	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume)
Prince Edward Island	TWA	0.2 mg/m ³ (fume)
Quebec	TWAEV	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume)
Saskatchewan	TWA / STEL	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume) TWA 2 mg/m ³ (dust, mist); 0.6 mg/m ³ (fume) STEL
Yukon	TWA / STEL	1 mg/m ³ (dust, mist); 0.2 mg/m ³ (fume) TWA 2 mg/m ³ (dust, mist); 0.6 mg/m ³ (fume) STEL

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8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Provide sufficient ventilation to keep vapors below permissible exposure limit.
- Personal protective equipment : Protective goggles. Face shield. Gas mask at concentration in the air > > TLV. Protective clothing.



- Hand protection : Impermeable protective gloves, such as: nitrile, neoprene, or PVC. Wear gauntlet gloves. Check glove manufacturer's permeation / degradation information.
- Eye protection : Face shield. Chemical safety goggles. Do not wear contact lenses.
- Skin and body protection : Wear suitable protective clothing. Chemical resistant suit. Rubber apron, boots.
- Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Environmental exposure controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Blue
- Odour : Odorless
- Odour threshold : No data available
- pH : 1 - 1.5
- pH solution : 1 - 10 g/l
- Molecular Weight : 98
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : -17.5 °C (0.5 °F) (75% H₃PO₄)
- Freezing point : No data available
- Boiling point : 135 - 158 °C (275 - 316 °F) (75-80% H₃PO₄)
- Flash point : No data available
- Self ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : 6 mm Hg at 25 °C (77 °F)
- Relative vapour density at 20 °C : No data available
- Relative density : 1.6 at 25 °C (77 °F)
- Density : 13 lb/gal

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Solubility	: Water: Miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: 24 cP at 20 °C (68 °F) 12 cP at 40 °C (104 °F)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Material is hygroscopic. Acidic liquids, such as this material, may react with metals and release hydrogen gas.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Protect from moisture. Avoid high temperatures.

10.5. Incompatible materials

Bases. Aluminum. Copper. Mild steel. Brass. Bronze.

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Phosphorus oxides. Phosphine. Oxides of copper.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2730 mg/kg
LC50 inhalation rat (mg/l)	> 850 mg/m ³ (Exposure time: 1 h)

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 1 - 1.5
Serious eye damage/irritation	: Causes serious eye damage. pH: 1 - 1.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Causes damage to organs (liver) through prolonged or repeated exposure.

Aspiration hazard : Not classified



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SECTION 12: Ecological information

Ecotoxicity:	EPA Ecological Toxicity rating :	High
	Acute Toxicity to Fish:	(<i>L. macrochirus</i> (bluegill sunfish)) 96-hr static: LC ₅₀ = pH 3.0–3.5
	Chronic Toxicity to Fish:	Mosquito fish: LD ₅₀ = 138 mg/L; 96 hours (CAS# 7664-38-2)
	Acute Toxicity to Aquatic Invertebrates:	(<i>Daphnia magna</i>) 12-hr static: EC ₅₀ = pH 4.6; (<i>Daphnia pulex</i>) 12-hr static: EC ₅₀ = pH 4.1; (<i>Gammarus pulex</i>) 12-hr static: LC ₅₀ = pH 3.4.
	Toxicity to Aquatic Plants:	Dangerous to aquatic plants at high concentrations.
	Toxicity to Bacteria: (activated sludge):	(Activated sludge): EC ₅₀ = pH 2.55.
	Toxicity to Soil Dwelling Organisms:	No data available
	Toxicity to Terrestrial Plants:	(Peas, beans, beets, rapeseed and weeds) Sprayed with 15-20% solution of H ₃ PO ₄ : Foliage was destroyed on all plants.
Environmental Fate:	Stability in Water:	Ionic dissociation in water.
	Stability in Soil:	Dissolves some soil material (carbonates).
	Transport and Distribution:	Under acidic soil conditions, sparsely soluble phosphates tend to solubilize and may migrate to water.
Toxicity:	Inorganic phosphates have the potential to increase the growth of freshwater algae, whose eventual death will reduce the available oxygen for aquatic life.	
Degradation Products:	Biodegradation:	Under anaerobic conditions, microorganisms may degrade the product to phosphine.
	Photodegradation:	No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Sewage disposal recommendations : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.
- Waste disposal recommendations : Place in an approved container and dispose of contaminated material at a licensed site.
- Additional information : Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

- UN-No.(DOT) : 1805
- DOT NA no. UN1805

14.2. UN proper shipping name

- DOT Proper Shipping Name :
Phosphoric Acid Solution
(Contains Phosphoric Acid and Copper Carbonate)

- Department of Transportation (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
- Hazard Classes

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Hazard labels (DOT) : 8 - Corrosive substances



~~DOT Symbols~~ : ~~G - Identifies PSN requiring a technical name~~

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) :

A7 - Steel packagings must be corrosion-resistant or have protection against corrosion

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). **N34** - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

T4 - See Table (172.102(7))

TP1- TP1 The maximum degree of filling must not exceed the degree of filling determined by the following:

Where:

tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling (For additional clarification, see 49 CFR 172.102(8)).

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

14.3. Additional information

Emergency Response Guide (ERG) Number : 154

Reportable Quantity : 5000 pounds (100% Phosphoric Acid)

Other information : No supplementary information available.

Overland transport

No additional information available

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Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Air transport

DOT Quantity Limitations Passenger : 5 L
aircraft/rail (49 CFR 173.27)

DOT Quantity Limitations Cargo : 60 L
aircraft only (49 CFR 175.75)

IATA ERG Number : 8L

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Copper Carbonate (12069-69-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 %
Phosphoric acid (7664-38-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. US State regulations

The following states have an OSH program approved by OSHA. If you are located in any of these states you may be under state jurisdiction rather than federal jurisdiction and your state may have more stringent requirements than OSHA. You should consult your state regulations to ensure compliance.

Alaska	Indiana	Minnesota	North Carolina	Utah
Arizona	Iowa	Nevada	Oregon	Vermont
California	Kentucky	New Mexico	Puerto Rico	*Virgin Islands
*Connecticut	Maryland	*New Jersey	South Carolina	Virginia
Hawaii	Michigan	*New York	Tennessee	Washington
*Illinois				Wyoming

*The state plans in these states apply only to public sector employers. In these states private sector employers are subject to USOL – OSHA jurisdiction. All other state plans apply to both public and private sector employers.

Copper (7440-50-8)
U.S. - California - Priority Toxic Pollutants - Freshwater Criteria
U.S. - California - Priority Toxic Pollutants - Human Health Criteria
U.S. - California - Priority Toxic Pollutants - Saltwater Criteria
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)

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U.S. - Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
U.S. - Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - Connecticut - Drinking Water Quality Standards - Groundwater Sources
U.S. - Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S. - Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S. - Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S. - Connecticut - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms
U.S. - Connecticut - Water Quality Standards - Health Designations
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - Hawaii - Occupational Exposure Limits - STELs
U.S. - Hawaii - Occupational Exposure Limits - TWAs
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Illinois - Toxic Air Contaminants
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life
U.S. - Maryland - Surface Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S. - Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life
U.S. - Maryland - Surface Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S. - Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

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- U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
- U.S. - New Jersey - Environmental Hazardous Substances List
- U.S. - New Jersey - Primary Drinking Water Standards - Action Levels - ALs
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New Jersey - Water Quality - Ground Water Quality Criteria
- U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
- U.S. - New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - North Dakota - Water Quality Standards - Aquatic Life Acute Value for Classes I, IA, II, III
- U.S. - North Dakota - Water Quality Standards - Aquatic Life Chronic Value for Classes I, IA, II, III
- U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - Pennsylvania - Beneficial Use of Sewage Sludge by Land Application - Pollutant Ceiling Limits
- U.S. - Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
- U.S. - Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
- U.S. - Rhode Island - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
- U.S. - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
- U.S. - Rhode Island - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
- U.S. - Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
- U.S. - South Carolina - Secondary Maximum Contaminant Levels (SMCLs)
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Utah - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Virginia - Water Quality Standards - Acute Freshwater Aquatic Life
- U.S. - Virginia - Water Quality Standards - Acute Saltwater Aquatic Life
- U.S. - Virginia - Water Quality Standards - Chronic Freshwater Aquatic Life
- U.S. - Virginia - Water Quality Standards - Chronic Saltwater Aquatic Life
- U.S. - Virginia - Water Quality Standards - Public Water Supply Effluent Limits
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Height 25 Ft to Less Than 40 Ft
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Height 40 Ft to Less Than 75 Ft
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
- U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water
- U.S. - Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water
- U.S. - Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
- U.S. - Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Marine Water

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U.S. - Arkansas - Surface Water Quality Standards - Chronic Aquatic Life Criteria

U.S. - Arkansas - Surface Water Quality Standards - Acute Aquatic Life Criteria

Phosphoric acid (7664-38-2)

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Hawaii - Occupational Exposure Limits - STELs

U.S. - Hawaii - Occupational Exposure Limits - TWAs

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Idaho - Occupational Exposure Limits - TWAs

U.S. - Louisiana - Reportable Quantity List for Pollutants

U.S. - Massachusetts - Allowable Ambient Limits (AALs)

U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Occupational Exposure Limits - STELs

U.S. - Michigan - Occupational Exposure Limits - TWAs

U.S. - Michigan - Polluting Materials List

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Hazardous Substance List

U.S. - Minnesota - Permissible Exposure Limits - STELs

U.S. - Minnesota - Permissible Exposure Limits - TWAs

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - New York - Occupational Exposure Limits - TWAs

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour

U.S. - Oregon - Permissible Exposure Limits - TWAs

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual

U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations

U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories

U.S. - Tennessee - Occupational Exposure Limits - STELs

U.S. - Tennessee - Occupational Exposure Limits - TWAs

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U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - STELs
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Height 25 Ft to Less Than 40 Ft
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Height 40 Ft to Less Than 75 Ft
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

15.3. Canadian regulations

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WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Copper (7440-50-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory. Listed on the Canadian Ingredient Disclosure List – Disclosure at 1%	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Phosphoric acid (7664-38-2)	
Listed on the Canadian DSL (Domestic Substances List) inventory. Listed on the Canadian Ingredient Disclosure List – Disclosure at 1%	
WHMIS Classification	Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16: Other information

Full text of H-phrases:

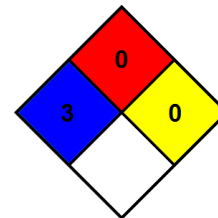
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	skin corrosion/irritation Category 1A
STOT RE 1	H372 -Causes damage to organs through prolonged or repeated exposure
STOT SE 3	H335 - May cause respiratory irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life

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- NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA fire hazard : 0 - Materials that will not burn.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



- Previous PotashCorp MSDS Number : MSDS 93 – Additive B
- Section(s) Updated : Section 1.1 – Product Identifier, Section 16 – NFPA Symbol
- Logo Change : No other information changes; kept same date

SDS US (GHS HazCom 2012)

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