

SAFETY DATA SHEET

Additive B

Section 1. Identification

Product identifier : Additive B SDS # : 238

Other means of identification

Synonyms : ADDB
Product code(s) : ADDB

Product type : Liquid.

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

Identified uses

Metal cleaning.
Aluminum brightener.

Uses advised against Reason

Consumer use Risk assessment.

Supplier's details : PCS Sales (USA), Inc. (A Subsidiary of Nutrien Ltd.)

Suite 150

500 Lake Cook Road Deerfield, IL 60015 United States

PCS Sales (Canada), Inc. (A Subsidiary of Nutrien Ltd.)

Suite 500

122 1st Avenue South

Saskatoon, Saskatchewan S7K 7G3

Canada

Company phone number (North America): 1-800-524-0132 (Customer Service)

sds@nutrien.com - www.nutrien.com

Emergency telephone number (with hours of

operation)

: Nutrien North American

24 HOUR EMERGENCY TELEPHONE NUMBERS:

English:

Transportation Emergencies: 1-800-792-8311 Medical Emergencies: 1-303-389-1653

French or Spanish:

Tranportation or Medical Emergencies: 1-303-389-1654

Section 2. Hazard identification

Classification of the substance or mixture

: CORROSIVE TO METALS - Category 1 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

GHS label elements

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Section 2. Hazard identification

Hazard pictograms





Signal word : Danger

Hazard statements: May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statements

General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep only in original packaging. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response

: Absorb spillage to prevent material damage.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or physician.

IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.

Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON

CENTER or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or physician.

Storage Disposal

: Store locked up. Store in a corrosion resistant container with a resistant inner liner.

: Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Supplemental label

elements

: None known.

Other hazards which do no result in classification

Other hazards which do not : Very toxic to aquatic life with long lasting effects.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Ørthophosphoric acid Water	71 - 72 25 - 26.5	7664-38-2 7732-18-5
	2.5 - 3	1184-64-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

: CORROSIVE. Begin eye irrigation immediately. All eye exposures to acid require medical evaluation following decontamination. Immediately rinse eyes with large quantities of water or saline for a minimum of 20-30 minutes depending on severity of exposure. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. Call an ambulance for transport to hospital. Continue eye irrigation during transport. For additional

Section 4. First-aid measures

advice call the medical emergency number on this safety data sheet or your poison center or doctor.

Inhalation

: CORROSIVE. If mists or vapors are present in unknown or excessive concentrations, rescuers must wear appropriate respiratory protection and a suit resistant to acids (Level B or C). REMOVE PERSON TO FRESH AIR. Watch closely for signs of wheezing and breathing difficulties. Maintain an open airway. If not breathing, begin CPR. Oxygen may be administered by trained personnel. Affected persons who have stopped breathing or are having difficulty breathing or are unconscious need immediate medical attention. Call an ambulance for transport to hospital. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

Skin contact

CORROSIVE. Causes severe burns. Immediately begin rinsing the affected areas with water. Remove contaminated clothing and shoes. Affected areas should be rinsed for a minimum of 20 - 30 minutes or longer depending on severity of exposure. Luke-warm water is recommended for continued irrigation to prevent hypothermia. Conscious persons without breathing difficulties may benefit from prolonged irrigation in a fixed shower or bathing facility prior to hospital transport. Call an ambulance for transport to hospital. Continue skin irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or doctor.

Ingestion

: CORROSIVE. May cause severe burns to the mouth, throat, and stomach. If the affected person requires cardiopulmonary resuscitation, avoid mouth to mouth contact. Do not induce vomiting. If vomiting occurs, attempt to keep head lower than the chest so that vomit does not enter the lungs. Wash face and mouth with water to remove visible material. If the exposed person is conscious and can swallow, give 1-2 sips of water. Do not give anything else by mouth. Loosen tight clothing such as collar, tie, belt or waistband to prevent any breathing restrictions. For signs of breathing difficulties, refer to the INHALATION section. Call an ambulance for transportation to hospital. For additional advice, call the medical emergency number on this safety data sheet or your poison center or doctor.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye damage. Corrosive to eyes on contact.

Inhalation: May cause respiratory irritation.

Skin contact: Corrosive to the skin. Causes severe burns.

Ingestion: Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

throat and stomach pain difficulty swallowing nausea or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First-aid measures

Notes to physician

: Phosphoric acid is an acid which may cause coagulative necrosis. Treatment is symptomatic and supportive. The extent of injury depends on duration of exposure and concentration of liquid. Do not attempt to use chemicals to neutralize the exposure. 24 Hr Medical Emergency telephone number for professional support - From Canada or the U.S., English: 1-303-389-1653; French or Spanish: 1-303-389-1654. From all other countries, English: 00-1-303-389-1653; French or Spanish: 00-1-303-389-1654.

Specific treatments

: Outcomes can be improved by minimizing time to decontamination and extending decontamination times to reduce tissue damage. Expert opinion indicates extended decontamination is required to remove corrosive chemicals. Skin and eye decontamination should be performed for a minimum of 20 - 30 minutes. Extended decontamination times may be required depending on the exposure. To avoid hypothermia, irrigation water should be maintained at a comfortable temperature. If the patient is not in extremis, it may be necessary to delay transport to emergency care facilities to ensure adequate decontamination time. However, early patient transport may be necessary depending on patient's condition or the availability of water. If possible, continue skin and/or eye irrigation during emergency medical transport. Double-bag contaminated clothing and personal belongings of the patient.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. Depending on the situation, the rescuer should wear an appropriate mask, gloves, protective clothing and a respirator or self-contained breathing apparatus. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Reacts violently with water. Will react with water or steam to produce heat and corrosive fumes. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Flammable concentrations of vapor may accumulate in the headspace of containers.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark

: Contain and collect the water used to fight the fire for later treatment and disposal.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Refer to Emergency Response Guidebook, Guide 154 for further information regarding spill control and Isolation/ Protective Action Distances Guidelines.

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Neutralize acids by applying basic substances (soda ash or lime) or use an acid spill kit. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Put on appropriate personal protective equipment (see Section 8). Approach release from upwind. Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with calcium carbonate, crushed limestone, or sodium carbonate.

Place spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Absorb spillage to prevent material damage.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental

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Section 7. Handling and storage

contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
© anadian Regulations	
Orthophosphoric acid	CA Alberta Provincial: (Canada, 4/2009). 15 min OEL: 3 mg/m³ 15 minutes. 8 hrs OEL: 1 mg/m³ 8 hours. British Columbia Provincial: (Canada, 4/2014). TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. CA Ontario Provincial (Canada, 1/2013). TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. CA Quebec Provincial. (Canada, 1/2014). TWAEV: 1 mg/m³ 8 hours. STEV: 3 mg/m³ 15 minutes.
Copper	British Columbia Provincial, Saskatchewan Provincial, Ontario Provincial, and Alberta Provincial: Copper, dusts and mists, as Cu: OEL 1 mg/m3
☑.S. Federal Regulations Orthophosphoric acid	ACGIH TLV (United States, 4/2014). TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. NIOSH REL (United States, 10/2013). TWA: 1 mg/m³ 10 hours. STEL: 3 mg/m³ 15 minutes. OSHA PEL (United States, 2/2013). TWA: 1 mg/m³ 8 hours.
Copper	Copper, dusts and mists: ACGIH TLV-TWA: 1 mg/m3 Permissible Exposure Limit, Michigan OSHA and Federal OSHA: 1 mg/m3 as Cu
Water	None assigned.

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended:

butyl rubber nitrile rubber neoprene rubber

PVC

Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: chemical-resistant protective suit Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Impervious rubber safety boots. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

Section 9. Physical and chemical properties

Appearance

: Liquid. [Clear to slightly hazy liquid.] Physical state

Color Clear Blue. : Odorless. Odor : Not available. Odor threshold pН : 1 to 1.5

: 77.5°C (0.5°F) **Melting point** : 1/33°C (271.4°F) **Boiling point** Flash point : Not applicable. : Not available. **Evaporation rate**

Flammability (solid, gas)

: Non-flammable. Material will not burn.

Lower and upper explosive

(flammable) limits

Not applicable. Non-flammable substance. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Flammable concentrations of vapor may accumulate in the headspace of containers.

: 0.27 to 0.53 kPa (2 to 4 mm Hg) [room temperature] Vapor pressure

Vapor density : Not available.

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Section 9. Physical and chemical properties

Relative density : 1.6 to 1.7

Solubility : Easily soluble in the following materials: cold water and hot water.

Solubility in water : See above.

Partition coefficient: n- : Not available.

octanol/water

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): 24 mPa·s (24 cP)

Section 10. Stability and reactivity

Reactivity: Reactive or incompatible with the following materials:

Reacts violently with bases.

May be corrosive to metals. Attacks many metals producing extremely flammable

hydrogen gas which can form explosive mixtures with air.

This product should be stored away from oxidizing materials and strong bases.

Chemical stability: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data. This product should be stored away from oxidizing materials and strong bases. Refer to NFPA 400 Hazardous Materials Code for further information

on the safe storage and handling of hazardous materials.

Incompatible materials : Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis metals

Contact your sales representative or a metallurgical specialist to ensure

compatability with your equipment.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat	1.25 g/kg	-
Copper carbonate	LD50 Oral	Rat	159 mg/kg bw	-

Conclusion/Summary

Irritation/Corrosion

: Not considered to be acutely toxic. Corrosive to the digestive tract.

Not available.

Conclusion/Summary

Skin : Corrosive to the skin.

Eyes : Corrosive to eyes.

Respiratory: May cause respiratory irritation.

Sensitization

Not available.

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Section 11. Toxicological information

Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

Mutagenicity
Not available.

Conclusion/Summary: No known significant effects or critical hazards.

Carcinogenicity

Not available.

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Additive B	Category 3	• •	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Inhalation (mists) routes of exposure : Skin contact

Potential acute health effects

Eye contact: Causes serious eye damage. Corrosive to eyes on contact.

Inhalation: May cause respiratory irritation.

Skin contact: Corrosive to the skin. Causes severe burns.

Ingestion: Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

throat and stomach pain difficulty swallowing nausea or vomiting

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Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

: See above.

Potential delayed effects : See above.

Long term exposure

Potential immediate

: See above.

effects

Potential delayed effects : See below.

Potential chronic health effects

Conclusion/Summary: Adverse effects are typically the result of acute overexposure. These effects may

be long term or permanent in nature.

General
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute EC50 105 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 60 ppm Fresh water	Fish - Lepomis macrochirus	96 hours

Conclusion/Summary

Contains substances that are harmful to the aquatic environment. Harmful to aquatic life with long lasting effects. May be harmful to the environment if released in large quantities.

Persistence and degradability

Conclusion/Summary: Copper - Persistent in the environment.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of

in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product

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Section 13. Disposal considerations

residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	DOT Classification	Mexico Classification	IMDG	IATA
UN number	UN1805	UN1805	UN1805	UN1805	UN1805
UN proper shipping name	Phosphoric acid solution (Phosphoric acid, copper carbonate)	Phosphoric acid solution (Phosphoric acid, copper carbonate)	Phosphoric acid solution (Phosphoric acid, copper carbonate)	Phosphoric acid solution, (Phosphoric acid, copper carbonate)	Phosphoric acid solution, (Phosphoric acid, copper carbonate)
Transport hazard class(es)	8	8 CORROGIVE 8	8	8	8
Packing group	III	Ш	III	Ш	III
Environmental hazards	y es.	y es.	Yes. The environmentally hazardous substance mark is not required.	y es.	Yes. The environmentally hazardous substance mark is not required.
Additional information	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail. Explosive Limit and Limited Quantity Index 5 Passenger Carrying Road or Rail Index 5	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Reportable quantity 6993 lbs / 3174.8 kg [524.19 gal / 1984.3 L]. Packages of less than the reportable quantity are not subject to Hazmat transportation	Special provisions 223	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-A, S-B Special provisions 223	Phe environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 5 L. Cargo Aircraft Only: 60 L.

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Additive B **Section 14. Transport information** requirements. **Packaging** instruction Exceptions: 154. Non-bulk: 203. Bulk: 241. Quantity limitation Passenger aircraft/rail: 5 L. Cargo aircraft: 60 1 **Special** provisions A7, IB3, N34, T4, TP1

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according

to Annex II of MARPOL and

the IBC Code

: Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: Phosphorus (total); Ammonia (total)

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.

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Section 15. Regulatory information

: All components are listed or exempted.

Turkey : Not determined.

U.S. Federal Regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(b) Active inventory: All components are listed or exempted.

Clean Water Act (CWA) 311: Phosphoric acid,

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)** : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

Not listed

(Essential Chemicals)

SARA 302/304 Composition/information on ingredients

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name		hazard	Sudden release of pressure	Reactive	health	Delayed (chronic) health hazard.
Orthophosphoric acid	≥75 - ≤90	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	copper carbonate	1184-64-1	2.5 - 3
Supplier notification	popper carbonate	1184-64-1	2.5 - 3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: PHOSPHORIC ACID : The following components are listed: Phosphoric acid **New York**

: The following components are listed: PHOSPHORIC ACID; COPPER compounds **New Jersey** : The following components are listed: PHOSPHORIC ACID; COPPER COMPOUNDS **Pennsylvania**

California Prop. 65 : **MARNING**: This product can expose you to chemicals including cadmium, which is known to the State of California to cause cancer and to cause birth defects or other reproductive harm. For more information, go to www.

P65Warnings.ca.gov.

Section 16. Other information

History

Date of issue/Date of

revision

Date of previous issue : 9/12/2019

Version : 1.1

Indicates information that has changed from previously issued version.

: 6/7/2021

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Weight of evidence
SKIN CORROSION - Category 1B	Weight of evidence
SERIOUS EYE DAMAGE - Category 1	Weight of evidence
SPECIFIC TARGET ORGAN TOXICITY (SINGLE	Weight of evidence
EXPOSURE) (Respiratory tract irritation) - Category 3	_

References

: Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of SDS preparation, Transport Canada;

Hazardous Products Act and Regulations, current revision at time of SDS preparation, Health Canada;

Domestic Substances List, current revision at time of SDS preparation, Environment Canada;

29 CFR Part 1910, current revision at time of SDS preparation, U.S. Occupational Safety and Health Administration;

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Notice to reader

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

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