



CARUS™ 1200 WATER TREATMENT CHEMICAL

MATERIAL SAFETY DATA SHEET

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MSDS # CP-300

Revision Date: April 2012

Supersedes: March 2009

Section 1 Chemical Product and Company Identification

PRODUCT NAME: CARUS™ 1200 Water Treatment Chemical	
TRADE NAME: CARUS™ 1200 Water Treatment Chemical	
SYNONYMS: Blended Phosphate solution	
COMPANY NAME (US): CARUS CORPORATION	COMPANY ADDRESS: 315 Fifth Street Peru, IL 61354, USA
	INFORMATION: (815) 223-1500 (815) 224-6816 (FAX) www.caruschem.com (Web) salesmkt@caruschem.com (Email)
	EMERGENCY TELEPHONE: (800) 435 -6856 (USA) (815) 223-1500 (Other countries) CHEMTREC® (800) 424-9300 (USA) (703) 527-3887 (Other countries)

Section 2 Hazards Identification

<p><u>GLOBAL HARMONIZED SYSTEM (GHS) OF CLASSIFICATION OF THE PREPARATION</u></p> <p>None</p> <p><u>GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS</u></p> <p>Signal Word: None</p> <p>Label Codes: None</p> <p>Hazard Statements: None</p> <p>OTHER HAZARDS:</p> <p>Caution: eye, skin and respiratory tract irritant. Corrosive to metals.</p> <p>Hazardous Materials Identification System (HMIS) Ratings:</p> <p>Health: 2 - Temporary or Minor</p> <p>Flammability: 0 - None</p> <p>Reactivity: 0 - None</p> <p>Personnel Protective Equipment: goggles, face shield, apron, respirator and proper gloves.</p> <p>Inhalation:</p> <p>May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.</p> <p>Ingestion:</p> <p>Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, heart disturbances and central nervous system effects. The toxicity of phosphates is due to their ability to sequester calcium.</p> <p>Skin Contact:</p> <p>May cause irritation. May cause inflammation and pain on prolonged contact, especially with moist skin.</p> <p>Eye Contact:</p> <p>May cause irritation, redness and pain.</p> <p>Chronic Exposure:</p> <p>May sequester calcium and cause calcium phosphate deposits in the kidneys.</p> <p>Aggravation of Pre-existing Conditions:</p> <p>No information found.</p>



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Section 3 Ingredients Information

Material	PEL	TLV	CAS.NO.	EC. NO.	%
Diphosphoric acid, tetrapotassium salt	No Data	No Data	7320-34-5	<u>230-785-7</u>	40-70
Other non-hazardous ingredients	No Data	No Data	N/A	N/A	30-60

EU LABEL

HAZARD SYMBOLS

None

RISK PHRASES

None

SAFETY PHRASES

None

This product contains no toxic chemicals subject to the reporting requirements of Section 313 – Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Section 4 First Aid Measures

Eyes:

Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface.

Skin:

Immediately wash contaminated areas with water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse.

Inhalation:

Remove person from contaminated area to fresh air.

Ingestion:

Never give anything by mouth to an unconscious or convulsing person. If person is conscious, give large quantities of water or milk. Seek medical attention immediately.

Section 5 Fire Fighting Measures

NFPA* Hazard Ratings:

Health: 2 = Moderately toxic material. Will have one or both of the following characteristics: Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical treatment is given.

Flammability: 0 = Materials that will not burn.

Reactivity: 0 = Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

Special Hazard: None

***National Fire Protection Association 704**

First Responders:

Wear protective gloves, boots, goggles, and respirator. In case of fire, wear positive pressure breathing apparatus.

Approach incident with caution.

Flash Point:

None

Flammable or Explosive Limits:

Lower: Nonflammable Upper: Nonflammable

Extinguishing Media:

Use large quantities of water. Dike to contain.



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Section 6 Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled:

Contain spill by collecting the liquid in a pit or holding behind a dam (sand or soil). Absorb with inert media and dispose of properly. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to phosphates. Flush area with large amounts of water.

Personnel Precautions:

Personnel should wear protective clothing suitable for the task.

Section 7 Handling and Storage

Work/Hygiene Practices:

Wash hands thoroughly with soap and water after handling phosphate solution, and before eating or smoking. Wear proper protective equipment. Remove clothing, if it becomes contaminated.

Ventilation Requirements:

Provide sufficient mechanical and/or local exhaust.

Conditions For Safe Storage:

Protect containers from physical damage. Store in a cool, dry area in closed containers. Do not transfer or store in aluminum containers.

Section 8 Exposure Controls and Personal Protection

Respiratory Protection:

In cases where overexposure to dust may occur, use any air purifying, and full-face piece respirator with an N-95 or better filter. Engineering or administrative controls should be implemented to control dust.

Eye:

Goggles or safety glasses with side shields should be worn. Provide eyewash in work area.

Gloves:

Rubber or plastic gloves should be worn.

Other Protective Equipment:

Normal work clothing covering arms and legs, and rubber, or plastic apron should be worn. Caution: If clothing becomes contaminated, wash off immediately.

Section 9 Physical and Chemical Properties

Appearance and Odor:	Colorless solution, odorless
Boiling Point, 760 mm Hg:	>101 °C
Freezing point, 760 mm Hg:	0 °C
Vapor Pressure (mm Hg):	N/A
Solubility In Water in % By Solution:	Miscible in all proportions
Percent Volatile by Volume:	40% (as water)
Evaporation Rate:	Same as water
Specific Gravity:	1.73 ± 0.03
pH:	10.9 ± 0.5

Section 10 Stability and Reactivity

Stability:	Under normal conditions, the material is stable.
Conditions To Avoid:	Do not expose to extreme temperatures
Incompatible Materials:	Soluble calcium salt solutions and hydrofluoric or Hydrofluosilicic acid could cause precipitations.
Hazardous Decomposition:	When involved in a fire, the material may form toxic fumes of phosphorous oxides.
Conditions Contributing to Hazardous Polymerization:	Material is not known to polymerize.



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Section 11 Toxicological Information

<p>Acute Toxicity: Irritating to body tissue with which it comes into contact. CAS# 7320-34-5: Oral, rat: LD50 = 2444 mg/kg, >1000 mg/Kg</p> <p>Acute Overexposure: Irritating to body tissue with which it comes into contact.</p> <p>Chronic Overexposure: No known cases of chronic poisoning due to phosphate solutions have been reported.</p> <p>Carcinogenicity: None of the components has been classified as a carcinogen by OSHA, NTP, and IARC.</p> <p>Medical Conditions Generally Aggravated by Exposure: Phosphate solution will cause further irritation of tissue, open wounds, burns or mucous membranes.</p>
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Section 12 Ecological Information

None

Section 13 Disposal Considerations

<p>Waste Disposal: Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to phosphates. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.</p> <p>RCRA P-Series: None listed. RCRA U-Series: None listed.</p>

Section 14 Transport Information

<p>USA (Land, D.O.T.) European Labeling in accordance with EC directive (Air, I.C.A.O.)</p>	<p>Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Diphosphoric acid, tetrapotassium salt) Hazard Class or Division: 8 ID Number: UN 3266 Packing Group: III</p>
<p>European Labeling in accordance with Road/Rail Transport (ADR/RID)</p>	<p>ID Number: UN 3266 ADR/RID Class: 8 Packing Group: III Description of Goods: Corrosive liquid, basic, inorganic, n.o.s. (Diphosphoric acid, tetrapotassium salt) Hazard Identification No. 80</p>
<p>European Labeling in accordance with EC directive (Water, I.M.O.)</p>	<p>Proper Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Diphosphoric acid, tetrapotassium salt) Class/Division: 8 ID Number: UN 3266 Packing Group: III Marine Pollutant: No EmS: F-A, S-B</p>



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Section 15 Regulatory Information

US FEDERAL

TSCA:

All components in this product are listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals in this product are on the Health & Safety Reporting List.

Chemical Test Rules:

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:

None of the chemicals in this product are listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this product have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs:

None of the chemicals in this product have an RQ.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

SARA Codes:

CAS # 7320-34-5: acute

Section 313:

None of chemicals in this product are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 or Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

State:

None of the chemicals in this product are present on state lists from CA, PA, WI, MA, or NJ.

California Prop 65:

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

EU LABEL

HAZARD SYMBOLS

None

RISK PHRASES

None

SAFETY PHRASES

None

61 Avoid releases to the environment.

WGK (Water Danger/Protection): None

Canada - DSL/NDSL

CAS # 7320-34-5 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS Classification:

D2B - Poisonous and infectious material - Other effects - Toxic



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Section 15 Regulatory Information (contd.)

This product is classified as hazardous in accordance with the hazard criteria of the Controlled Products Regulations.

Canadian Ingredient Disclosure List

None of the components in this product are listed on the Canadian Ingredient Disclosure List.

Section 16 Other Information

ADR/RID	Agreement on Dangerous Goods by Road /Regulations Concerning the International Transport of Dangerous Goods by Rail
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	Inventory of Existing Chemical Substances (European)
DOT	Department of Transportation
DSL/NDL	The Domestic Substances and the Non-Domestic Substances List (Canada)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
MSHA	Mine Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
TDG	Transport Dangerous Goods (Canada)
TSCA	Toxic substances control Act
TLV-TWA	Threshold Limit Value-Time Weighted Average
UN	United Nations
WHMIS	Workplace Hazardous Materials Information System

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and, therefore, holders and users should satisfy themselves that they are aware of all current data and regulations relevant to their particular use of product. CARUS CORPORATION DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR ACCURACY OR THE INFORMATION INCLUDED HEREIN. CARUS CORPORATION MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR USE OR PURPOSE OF THE PRODUCT DESCRIBED HEREIN. All conditions relating to storage, handling, and use of the product are beyond the control of Carus Corporation, and shall be the sole responsibility of the holder or user of the product.

This safety data sheet was reviewed according to Annex II of the regulation of the European Parliament and European Council (EC) No. 1907/2006-REACH and 1272/2008.

CARUS CORPORATION, 315 5TH STREET, PERU, ILLINOIS 61354, USA
CARUS EUROPE IS A DIVISION OF CARUS CORPORATION

Chithambarathanu Pillai (S.O.F.)
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OUR COMMITMENT TO SUSTAINABILITY



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