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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Performax™ DC5001
COOLING WATER TREATMENT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use


<p>Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington Delaware 19808 United States of America</p> <p>RegulatoryRequestsNA@solenis.com</p>	<p>Emergency telephone number 1-844-SOLENIS (844-765-3647) / 606-329-5705</p> <p>Product Information 1-844-SOLENIS (844-765-3647)</p>
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to Metals : Category 1
Eye irritation : Category 2A


GHS Label element

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : May be corrosive to metals.
Causes serious eye irritation.

Precautionary Statements : **Prevention:**
Keep only in original container.
Wash skin thoroughly after handling.
Wear eye protection/ face protection.
Response:
IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

Absorb spillage to prevent material damage.

Storage:

Store in corrosive resistant stainless steel container with a resistant inner liner.

Other hazards


None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
PHOSPHONIC ACID DERIVATIVE	254504001-5182	Met. Corr. 1; H290 Acute Tox. 4; H302 Eye Dam. 1; H318	60.00
PHOSPHOROUS ACID	10294-56-1	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318	2.70
PHOSPHONIC ACID	13598-36-2	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318	1.99
PHOSPHORIC ACID	7664-38-2	Skin Corr. 1; H314 Eye Dam. 1; H318	1.49

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SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.
 If unconscious place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.
- If swallowed : Obtain medical attention.
 Do NOT induce vomiting.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Pulmonary edema may be delayed.
 Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 Cough
 lung edema (fluid buildup in the lung tissue)
 Causes serious eye irritation.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO2)
 Dry chemical

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- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide
Oxides of phosphorus
phosphine
- Specific extinguishing methods :


Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapours/dust.
Container hazardous when empty.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

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Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
PHOSPHORIC ACID	7664-38-2	TWA	1 mg/m ³	PY OEL
		STEL	3 mg/m ³	PY OEL
		TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH
		REL	1 mg/m ³	NIOSH/GUID E
		STEL	3 mg/m ³	NIOSH/GUID E
		PEL	1 mg/m ³	OSHA_TRANS
		TWA	1 mg/m ³	TN OEL
		STEL	3 mg/m ³	TN OEL

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

: Wear resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

: Wash hands before breaks and at the end of workday.

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When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Colour	: clear
Odour	: characteristic
Odour Threshold	: No data available
pH	: > 2, Concentration: 10 g/l (20 °C)
Melting point/freezing point	: -40 °F / -40 °C
Boiling point/boiling range	: 221 °F / 105 °C (1013 hPa)
Flash point	: does not flash
Evaporation rate	: > 1 Ethyl Ether
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 17 mmHg (20 °C)
Relative vapour density	: > 1AIR=1
Relative density	: 1.44
Density	: 1.44 g/cm ³
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: Pow: < 3
Thermal decomposition	: No data available
Viscosity	

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Viscosity, dynamic : 64 cps (20 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Air
excessive heat
Exposure to moisture

Incompatible materials : Fluorine
Metals
nitromethane
Oxidizing agents
steel
strong alkalis
Strong bases
strong reducing agents
Sulphides
sulphites

Hazardous decomposition products : carbon dioxide and carbon monoxide
phosphine
Oxides of phosphorus


SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Product:

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Acute oral toxicity : LD50 (Rat): 3,130 mg/kg
 Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

Components:

PHOSPHONIC ACID DERIVATIVE:

Acute oral toxicity : Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): 6,000 mg/kg

PHOSPHOROUS ACID:

Acute oral toxicity : LD 50 (Rat): 1,500 mg/kg

PHOSPHONIC ACID:

Acute oral toxicity : LD 50 (Rat, male): 1,580 mg/kg
 Method: OECD Test Guideline 401

LD 50 (Rat, female): 1,560 mg/kg
 Method: OECD Test Guideline 401

Acute dermal toxicity : LD 50 (Rat): > 5,000 mg/kg

PHOSPHORIC ACID:

Acute oral toxicity : LD 50 (Rat): ca. 2,600 mg/kg

Acute inhalation toxicity : Remarks: Corrosive to respiratory system.

Acute dermal toxicity : LD 50 (Rabbit): 2,740 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Not irritating to skin

Remarks: May cause skin irritation in susceptible persons.

Components:

PHOSPHONIC ACID DERIVATIVE:

Result: Slightly irritating to skin

PHOSPHOROUS ACID:


Result: Corrosive to skin

PHOSPHONIC ACID:

Result: Corrosive to skin

PHOSPHORIC ACID:

Result: Corrosive to skin

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Severely irritating to eyes

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

PHOSPHONIC ACID DERIVATIVE:

Result: Corrosive to eyes

PHOSPHOROUS ACID:

Result: Corrosive to eyes

PHOSPHONIC ACID:

Result: Corrosive to eyes

PHOSPHORIC ACID:

Result: Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC


No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

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by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 300 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 878 mg/l
Exposure time: 48 h

Components:

PHOSPHONIC ACID DERIVATIVE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 368 mg/l
Exposure time: 96 h

LC 50 (Pimephales promelas (fathead minnow)): 868 mg/l
Exposure time: 96 h

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301

BOD/COD :
BOD/COD: 23 %

Components:

No data available

Bioaccumulative potential

Components:

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

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Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- General advice : Do not dispose of waste into sewer.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.
- Dispose of in accordance with all applicable local, state and federal regulations.
- Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN 3265	Corrosive liquid, acidic, organic, n.o.s. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8		III	
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U.S. DOT - RAIL

UN 3265	Corrosive liquid, acidic, organic, n.o.s. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8		III	
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U.S. DOT - INLAND WATERWAYS

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UN	3265	Corrosive liquid, acidic, organic, n.o.s. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
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TRANSPORT CANADA - ROAD

UN	3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	--	---	-----

TRANSPORT CANADA - RAIL

UN	3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	--	---	-----

TRANSPORT CANADA - INLAND WATERWAYS

UN	3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	--	---	-----


INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	--	---	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3265	Corrosive liquid, acidic, organic, n.o.s. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	--	---	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

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UN	3265	Corrosive liquid, acidic, organic, n.o.s. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	---	---	-----

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3265	LIQUIDO CORROSIVO, ACIDO, ORGANICO, N.E.P. ((1-HYDROXYETHYLIDENE)BISP HOSPHONIC ACID, PHOSPHOROUS ACID)	8	III
----	------	---	---	-----

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
PHOSPHORIC ACID	7664-38-2	5000	333355.557037

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 Component(s)SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:
TSCA : On TSCA Inventory

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- DSL : All components of this product are on the Canadian DSL.
- AUSTR : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

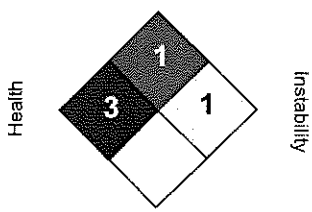
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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NFPA:	HMIS III:						
<p style="text-align: center;">Flammability</p>  <p style="text-align: center;">Special hazard.</p>	<table border="1" style="width: 100%;"> <tr> <td style="background-color: #cccccc;">HEALTH</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #cccccc;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #cccccc;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	3	FLAMMABILITY	1	PHYSICAL HAZARD	0
HEALTH	3						
FLAMMABILITY	1						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements referred to under sections 2 and 3.

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

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Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level


CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

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NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System