

**SAFETY DATA SHEET**

Revision Date: 01/22/2016

Print Date: 4/1/2016

SDS Number: R0351416

Version: 1.3

Drew™ 2215 COOLING WATER TREATMENT  
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 registered in various countries  
 735634

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Drew™ 2215  
 COOLING WATER TREATMENT  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries

**Recommended use of the chemical and restrictions on use**


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

**GHS Classification**

Skin corrosion : Category 1  
 Serious eye damage : Category 1  
 Skin sensitization : Category 1

**GHS Label element**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.

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**Precautionary Statements**

**: Prevention:**

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ 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 doctor/ physician.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 Wash contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
CORROSION/SCALE INHIBITOR	254504001-5281	Skin Sens. 1; H317	>= 1.50 - < 5.00

Trade Secret Composition - conceal identity + concentration

TRIPOTASSIUM PHOSPHATE	7778-53-2	Eye Dam. 1; H318	>= 1.50 - < 5.00
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		STOT SE 3; H335	
1H-Benzotriazole, 4(or 5)-methyl-, potassium salt	64665-53-8	Acute Tox. 4; H302 Eye Irrit. 2A; H319 STOT SE 3; H335	>= 1.50 - < 5.00
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	Eye Irrit. 2A; H319	>= 1.50 - < 5.00

Trade Secret Composition - conceal concentration

**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 : Move to fresh air.  
If breathed in, move person into fresh air.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.

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Do NOT induce vomiting.  
 Rinse mouth with water.  
 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 : 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)  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 Causes severe burns.

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

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  
 nitrogen oxides (NOx)  
 toxic fumes  
 Oxides of phosphorus  
 potassium oxide

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.

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Special protective equipment : In the event of fire, wear self-contained breathing apparatus.  
 for firefighters

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 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.  
 Do not smoke.  
 When diluting, always add the product to water. Never add water to the product.  
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.  
 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.
- 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.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

**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 and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
 Maintain eye wash station in immediate work area.

Skin and body protection

: Wear resistant gloves (consult your safety equipment supplier).  
 Wear as appropriate:  
 impervious clothing  
 Chemical resistant apron  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures

: Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 When using do not smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid  
 Colour : amber  
 Odour : No data available

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Odour Threshold : No data available  
 pH : > 12.2  
 Melting point/freezing point : 22 °F / -6 °C  
 Boiling point/boiling range : 212 °F / 100 °C  
 (1,013.333333 hPa)  
 Calculated Phase Transition Liquid/Gas  
 Flash point : Not applicable  
 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 : 23.3333333 hPa (20 °C)  
 Calculated Vapor Pressure  
 Relative vapour density : No data available  
 Relative density : No data available  
 Density : 1.230 g/cm<sup>3</sup> (77.0 °F)  
 Solubility(ies)  
 Water solubility : completely soluble  
 Solubility in other solvents : No data available  
 Partition coefficient: n-  
 octanol/water : No data available  
 Thermal decomposition : No data available  
 Viscosity  
 Viscosity, dynamic : No data available  
 Viscosity, kinematic : No data available  
 Oxidizing properties : No data available

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**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 : temperature extremes  
Freezing temperatures.
- Incompatible materials : Alkali metals  
Alkaline earth metals  
Reducing agents  
Strong acids  
Strong oxidizing agents  
This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.
- Hazardous decomposition products : Oxides of phosphorus  
potassium oxide

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity**

Not classified based on available information.

**Components:**

CORROSION/SCALE INHIBITOR:



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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Components:**

**TRIPOTASSIUM PHOSPHATE:**

Acute oral toxicity : LD50 (Rat): 4,260 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 0.83 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS.  
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD 50 (Rabbit): > 7,970 mg/kg  
 Test substance: (as aqueous solution)

**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

Acute oral toxicity : LD 50 (Rat): 675 mg/kg  
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD (Rabbit): > 4,000 mg/kg  
 Remarks: Information given is based on data obtained from similar substances.

**TETRAPOTASSIUM PYROPHOSPHATE:**

Acute oral toxicity : LD L0 (Rat): 4,640 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 4,640 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

**Components:**

**CORROSION/SCALE INHIBITOR:**

Result: Slightly irritating to skin

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**Components:****TRIPOTASSIUM PHOSPHATE:**

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: Not irritating to skin

**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

Species: Rabbit

Result: Slightly irritating to skin

Remarks: Information given is based on data obtained from similar substances.

**TETRAPOTASSIUM PYROPHOSPHATE:**

Result: Mildly irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:****CORROSION/SCALE INHIBITOR:**

Result: Slightly irritating to eyes

**Components:****TRIPOTASSIUM PHOSPHATE:**

Result: Corrosive to eyes

**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

Species: Rabbit

Result: Irritating to eyes

Remarks: Information given is based on data obtained from similar substances.

**TETRAPOTASSIUM PYROPHOSPHATE:**

Result: Irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:****CORROSION/SCALE INHIBITOR:**

Species: Guinea pig

Assessment: May cause sensitization by skin contact.

Method: Maximisation Test (GPMT)

**Components:**

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**TRIPOTASSIUM PHOSPHATE:**

Test Type: Local lymph node assay

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 429

**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

Genotoxicity in vitro

- : Test Type: Ames test  
 Metabolic activation: with metabolic activation  
 Result: positive  
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: in vitro assay  
 Test species: mammalian cells  
 Metabolic activation: without metabolic activation  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: Chromosome aberration test in vitro  
 Test species: mammalian cells  
 Metabolic activation: with and without metabolic activation  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: Ames test  
 Metabolic activation: without metabolic activation  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:**

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**TRIPOTASSIUM PHOSPHATE:**  
 Exposure routes: Inhalation  
 Target Organs: Respiratory Tract  
 Assessment: May cause respiratory irritation.

1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:  
 Exposure routes: Inhalation  
 Target Organs: Respiratory Tract  
 Assessment: May cause respiratory irritation.

**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 by NTP.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

- Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 707 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Remarks: Information given is based on data on the components and the ecotoxicology of similar products.
- LC 50 (Pimephales promelas (fathead minnow)): 825 mg/l  
 Exposure time: 96 h  
 Test Type: static test

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Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): 2,500 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

**Components:**

**CORROSION/SCALE INHIBITOR:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1,000 mg/l  
 Exposure time: 48 h

Toxicity to algae : EC50 (Aquatic plants): > 100 mg/l  
 Exposure time: 72 h

**Ecotoxicology Assessment**

Acute aquatic toxicity : Acute aquatic toxicity Category 2

Chronic aquatic toxicity : Chronic aquatic toxicity Category 2

**TRIPOTASSIUM PHOSPHATE:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203  
 GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): > 100 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

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GLP: yes

Remarks: Information given is based on data obtained from similar substances.

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

**Persistence and degradability**

**Product:**

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days  
 2,600 mg/l  
 Remarks: Based on a similar product formulation.

Chemical Oxygen Demand (COD) : 206,800 mg/l  
 Method: Chemical oxygen demand  
 Remarks: Based on a similar product formulation.

**Components:**

TRIPOTASSIUM PHOSPHATE:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential**

**Components:**

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

**Components:**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
 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 3267	Corrosive liquid, basic, organic, n.o.s. (PHOSPHONIC ACID DERIVATIVE)	8		III	
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**U.S. DOT - RAIL**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (PHOSPHONIC ACID DERIVATIVE)	8		III	
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**U.S. DOT - INLAND WATERWAYS**

UN 3267	Corrosive liquid, basic, organic, n.o.s. (PHOSPHONIC ACID DERIVATIVE)	8		III	
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**TRANSPORT CANADA - ROAD**

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UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**TRANSPORT CANADA - RAIL**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**TRANSPORT CANADA - INLAND WATERWAYS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

UN	3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

UN	3267	Corrosive liquid, basic, organic, n.o.s. (PHOSPHONIC ACID DERIVATIVE)	8	III
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

UN	3267	LIQUIDO CORROSIVO, BASICO, ORGANICO, N.E.P. (PHOSPHONIC ACID DERIVATIVE)	8	III
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID



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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)
POTASSIUM HYDROXIDE	1310-58-3	1000	347222.222222

**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** : Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**The components of this product are reported in the following inventories:**

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AUSTR : Exempt
- NZIOC : On the inventory, or in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECL : Not in compliance with the inventory
- PHIL : Not in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

**Inventories**

**SAFETY DATA SHEET**

Revision Date: 01/22/2016

Print Date: 4/1/2016

SDS Number: R0351416

Version: 1.3

Drew™ 2215 COOLING WATER TREATMENT  
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 registered in various countries  
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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**Registration: Trade Secret**

Chemical Name	Identification number
CORROSION/SCALE INHIBITOR	254504001-5281

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date: 01/22/2016

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

H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Further information**

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.

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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

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