



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CorrGuard 939

Revision Date: May 27, 2015

### \*\*\*Section 1 - IDENTIFICATION\*\*\*

Product Identifier:

**Material Name: CorrGuard 939**

**Chemical Family**

Acidic Zinc Phosphate Mixture

**Recommended Use**

Potable Water Corrosion Inhibitor

**Restrictions on Use**

Authorizations are limited to professional water treatment operators

**Manufacturer Information**

CORRTRAC SYSTEMS  
P.O. Box 747  
Maple, N.C. 27956

Phone: +1-800-714-5540  
Web Site:  
Emergency # +1-800-461-0615

### \*\*\*Section 2 - HAZARD(S) IDENTIFICATION\*\*\*

**Classification in accordance with 29 CFR 1910.1200.**

Acute Toxicity (Oral), Category 4

Skin Corrosion / Irritation, Category 1

Eye Damage / Irritation, Category 1

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory tract irritation)

**GHS LABEL ELEMENTS**

**Symbol(s)**



**Signal Word**

**DANGER**

**Hazard Statement(s)**

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation

**Precautionary Statement(s)**

**Prevention**

Do not breathe vapor or mist. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area.



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CorrGuard 939

Revision Date: May 27, 2015

### Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF INEYES: 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.

### Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

### Disposal

Dispose of material in accordance with all local, regional, national and international regulations.

### \*\*\*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\*\*\*

CAS	Component	Percent
7664-38-2	Phosphoric acid	25
7446-19-7	Zinc sulfate	20
7723-18-5	Water	balance

### \*\*\*Section 4 - FIRST-AID MEASURES\*\*\*

#### Description of Necessary Measures

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention. If breathing is difficult, oxygen should be administered by qualified personnel.

##### Skin Contact

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse. Destroy heavily contaminated shoes.

##### Eye Contact

Get medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing.

##### Ingestion

Get immediate medical attention. If swallowed, do not induce vomiting. Rinse mouth out with water.

#### Most Important Symptoms/Effects

##### Acute

Harmful if swallowed, respiratory tract irritation, skin burns, eye damage

##### Delayed

skin burns, eye damage.

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Effects may be delayed. Keep affected person under observation.

### \*\*\*Section 5 - FIRE-FIGHTING MEASURES\*\*\*

#### Extinguishing Media

Use CO2, dry chemical, regular foam. Use water to keep surrounding areas cool.



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CorrGuard 939

Revision Date: May 27, 2015

### Special Hazards Arising from the Chemical Hazardous Combustion Products

**Combustion:** oxides of phosphorus, zinc and sulfur.

### Special Protective Equipment and Precautions for Firefighters

Negligible fire hazard.

### Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products.

### Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## \*\*\*Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\*

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

### Methods and Materials for Containment and Cleaning Up

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. Stop leak if possible without personal risk. Do not touch spilled material. Contain the discharged material. Avoid discharge into drains, surface water or groundwater. Absorb with sand or other non-combustible, absorbent material. Neutralize prior to disposal. Small spills can be reacted carefully with Sodium Carbonate and the solid can be sent to an approved disposal facility. Dispose in accordance with all applicable local regulations. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

## \*\*\*Section 7 - HANDLING AND STORAGE\*\*\*

### Precautions for Safe Handling

No special handling precautions during normal use. Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not eat, drink, or smoke when using this product. Wear protective clothing to prevent contact. Handle as a corrosive liquid. Keep emergency spill kit near storage and use areas. Use protective skin cream on exposed skin before and during work shift. After handling, always wash hands thoroughly with soap and water. Keep well away from foodstuffs, food containers and food preparation and consumption areas. Use only in well ventilated areas.

### Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed. Protect from freezing. Keep away from heat. Avoid sunlight. Store above 20 °C.

**Incompatibilities:** alkalis, metals, combustible materials, metal salts. Flammable hydrogen gas can be generated in contact with active metals.



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CorrGuard 939

Revision Date: May 27, 2015

### \*\*\*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\*\*\*

#### Component Exposure Limits

##### Phosphoric acid (7664-38-2)

<b>ACGIH:</b>	1 mg/m3 TWA 3 mg/m3 STEL
<b>OSHA:</b>	1 mg/m3 TWA
<b>NIOSH:</b>	1 mg/m3 TWA 3 mg/m3 STEL
<b>Mexico</b>	1 mg/m3 TWA LMPE-PPT 3 mg/m3 STEL [LMPE-CT]

#### Appropriate Engineering Controls

Provide local exhaust or process ventilation system. Ensure compliance with exposure limits. Provide eye wash/shower.

#### Individual Protection Measures, such as Personal Protective Equipment

##### Eyes/Face Protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

##### Skin Protection

Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.

##### Glove Recommendations

Wear appropriate chemical resistant gloves. Change gloves when torn, punctured, or contaminated.  
Recommended material type: butyl rubber

##### Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, appropriate respiratory protection must be provided.  
Individuals at risk to inhalation of dust and vapors must use a respirator which conforms to EN141, with Type P2 filter.  
Any powered, air-purifying respirator with a full facepiece and organic vapor and acid gas cartridge(s).

### \*\*\*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\*

<b>Physical State:</b>	Liquid	<b>Appearance:</b>	Clear solution
<b>Color:</b>	Colorless to faint yellow/green	<b>Physical Form:</b>	Liquid
<b>Odor:</b>	Pungent odor	<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Approx. 1.4	<b>Melting Point:</b>	-16°C
<b>Boiling Point:</b>	213 °C (decomposition)	<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not available	<b>Vapor Pressure:</b>	0.04 p
<b>Vapor Density (air = 1):</b>	Not available	<b>Density:</b>	11.7 lb/gal
<b>Specific Gravity (water = 1):</b>	1.40	<b>Water Solubility:</b>	Miscible in all proportions
<b>Coeff. Water/Oil Dist:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Volatility:</b>	Not available	<b>PO4/Zm Ratio:</b>	3 to 1 21.45% / 7.15%



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CORRGUARD 939

Revision Date: May 27, 2015

### \*\*\*Section 10 - STABILITY AND REACTIVITY\*\*\*

#### Reactivity

No hazard expected.

#### Chemical Stability

No data available.

#### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

#### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. May ignite or explode on contact with combustible materials.

#### Incompatible Materials

alkalis, metals, combustible materials, metal salts, Flammable hydrogen gas can be generated in contact with metals.

#### Hazardous Decomposition Products

None

#### Hazardous Decomposition

**Combustion:** oxides of phosphorus, oxides of sulfur, and zinc

### \*\*\*Section 11 - TOXICOLOGICAL INFORMATION\*\*\*

#### Acute Toxicity

CORROSIVE. Inhalation may cause irritation to mucous membranes and upper respiratory tract. Prolonged or repeated exposure may cause tooth erosion and ulcers. Causes severe burns. Eye contact may cause eye damage and blindness. Prolonged or repeated exposure may cause dermatitis and conjunctivitis. Harmful or fatal if swallowed. Causes severe burns. May cause mucous membrane damage, cough, and difficulty breathing.

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Phosphoric acid (7664-38-2)

Oral: Rat LD50: 1530 mg/kg

Dermal: Rabbit LD50: 2740 mg/kg

Inhalation: Rat 1-hr LC50:>850 mg/m<sup>3</sup>

#### Information on Likely Routes of Exposure

##### Inhalation

May cause irritation, cough, and difficulty breathing. Prolonged or repeated contact may cause respiratory system damage.

##### Ingestion

##### Skin Contact

May cause irritation, redness, itching and burning. Prolonged or repeated exposure may cause skin damage.

##### Eye Contact

Causes burns. May cause blindness and eye damage.

##### Immediate Effects

Harmful if swallowed. May cause respiratory tract irritation. Causes severe skin burns and eye damage.



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CORRGUARD 939

Revision Date: May 27, 2015

### Delayed Effects

Causes severe skin burns and eye damage.

### Medical Conditions Aggravated by Exposure

No data available.

### Irritation/Corrosivity Data

Causes severe skin burns and eye damage. May cause respiratory tract irritation.

### Respiratory Sensitization

No information available for the product.

### Dermal Sensitization

No information available for the product.

### Germ Cell Mutagenicity

No human or animal test data available.

### Carcinogenicity

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

### Reproductive Toxicity

No human or animal test data available.

### Specific Target Organ Toxicity - Single Exposure

respiratory system

### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

### Aspiration Hazard

No data available.

* * *Section 12 - ECOLOGICAL INFORMATION* * *
---

### Ecotoxicity

Zinc Sulfate is very toxic to aquatic life with long effects

Phosphoric acid

96-hr LC50 Fisch: 138 mg/l

72-hr EC50 Algae: 590 mg/l

### Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

### Persistence and Degradability

No information available for the product.

### Bioaccumulation

No information available for the product.

### Mobility

No information available for the product.

### Bioconcentration

No information available for the product.

### Biodegradation

No information available for the product.



# CORRTRAC SYSTEMS

## Safety Data Sheet

Product Identifier: CORRGUARD 939

Revision Date: May 27, 2015

### \*\*\*Section 13 - DISPOSAL CONSIDERATIONS\*\*\*

#### Disposal Methods

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002 (Corrosive). Dispose of waste and packaging in a regulated landfill site or other method for hazardous or toxic wastes. Dispose in accordance with all applicable local regulations.

#### Disposal of Contaminated Packaging

Recycle if possible. Dispose in accordance with all applicable regulations.

### \*\*\*Section 14 - TRANSPORT INFORMATION\*\*\*

#### US DOT Information

**Shipping Name:** Corrosive Liquids n.o.s. (contains phosphoric acid)

**UN/NA #:** 1760 **Hazard Class:** 8 **Packing Group:** III

**Required Label(s):** Corrosive

### \*\*\*Section 15 - REGULATORY INFORMATION\*\*\*

#### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

**Phosphoric acid (7664-38-2)**

CERCLA 5000 lb RQ

**Zinc Sulfate (7446-19-7)**

CERCLA 1000 lb RQ

#### SARA 311/312

**Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

### \*\*\*Section 16 - OTHER INFORMATION\*\*\*

NSF Certified to NSF/ANSI Std 60 max use level

#### Summary of Changes

: New SDS.

**NFPA Ratings:** Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response,



# CORRTRAC SYSTEMS

## Safety Data Sheet

**Product Identifier: CORRGUARD 939**

Revision Date: May 27, 2015

Compensation, and Liability Act; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit

**Other Information**

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

End of Sheet