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Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier**Product Name** Salt Off**Other means of identification****Product Code** 1926**Details of the supplier of the safety data sheet****Company Name** Blue Cardinal Chemical, LLC
3670 Scarlet Oak Blvd.
St. Louis, MO 63122
800-325-3312**Emergency telephone number****Emergency Telephone** CHEMTEL 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements**Emergency Overview****DANGER****Hazard statements**

Causes severe skin burns and eye damage.

**Appearance:** Bright pink liquid**Physical state:** Liquid**Odor:** Mint**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary Statements - Storage

Store according to local rules and regulations.

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

Other Information

- May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Phosphoric Acid	7664-38-2	Proprietary	*
Trade Secret	Proprietary	Proprietary	*
Trade Secret	Proprietary	Proprietary	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Skin Contact

Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Inhalation

Remove to fresh air. Oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

Ingestion

Do not induce vomiting. Call a physician or poison control center immediately. Drink large amounts of water. Never give anything by mouth to an unconscious person. If vomiting occurs, give fluids again.

Most important symptoms and effect, both acute and delayed

Symptoms

Burning and/or irritation to eyes and skin. May cause irritation to the mucous membranes and upper respiratory tract. May cause pulmonary edema. Irritation and corrosive burns to mouth, throat, and stomach.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water. Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

Unsuitable extinguishing media: Not determined

Specific hazards arising from the chemical

Combustion products may be toxic.

Hazardous Combustion Products

Phosphorus oxides.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Use personal protective equipment as required.

Methods and material for containment and cleaning up**Methods for containment & cleaning up**

Prevent further leakage or spillage if safe to do so. Contain and collect with an inert absorbent and place into an appropriate container for disposal. Neutralize with soda ash or lime if necessary.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. When diluting, always add acid slowly to water and stir well to avoid spattering.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store away from incompatible materials. Protect container from physical damage. Keep out of the reach of children.

Incompatible Materials

Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	STEL: 3 mg/m3 TWA: 1 mg/m3	TWA: 1 mg/m3 (vacated) TWA: 1 mg/m3 (vacated) STEL: 3 mg/m3	IDLH: 1000 mg/m3 TWA: 1 mg/m3 STEL: 3 mg/m3

Appropriate engineering controls**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Splash proof chemical safety goggles.

Skin and body protection

Wear rubber or neoprene gloves.

Respiratory protection

General ventilation is normally adequate. Use appropriate respiratory protection if application method produces a fine spray or mists.

General Hygiene

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid
Appearance	Bright pink liquid
Color	Bright pink
Odor	Mint
Odor Threshold	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1–2	(Water = 1) pH 1-2
Melting Point/Freezing Point	-17.5 °C / 0.5 °F	
Boiling Point/Boiling Range	135 °C / 275 °F	
Flash Point	None	
Evaporation Rate	~ 1	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	5.65	
Vapor Density	Not determined	
Specific Gravity	1.185	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	None	

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility Of Hazardous Reactions

This product reacts violently with bases, spattering and liberating heat. Hazardous polymerization does not occur.

Conditions To Avoid

Keep out of reach of children.

Incompatible Materials

Bases.

Hazardous Decomposition Products

Oxides of phosphorous.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Skin Contact	Causes severe skin burns.
Eye Contact	Causes severe eye damage.
Inhalation	Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Phosphoric Acid 7664-38-2	= 1530 mg/kg (Rat)	= 2730 mg/kg (Rabbit)	> 850 mg/m3 (Rat) 1 h
Trade Secret	= 620 mg/kg (Rat)	> 10 g/kg (Rat)	-
Trade Secret	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	-
Trade Secret	= 7200 mg/kg (Rat)	-	-
Trade Secret	= 2400 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms	Burning and/or irritation to eyes and skin. May cause irritation to the mucous membranes and upper respiratory tract. May cause pulmonary edema. Irritation and corrosive burns to mouth, throat, and stomach.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Not determined

Soil Mobility

Not determined

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Phosphoric Acid 7664-38-2	Corrosive

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Product packaged in quarts for DOT moves as Consumer Commodity, ORM-D.

DOT

UN/ID No.	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	II

IATA

UN/ID No.	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	II

IMDG

UN/ID No.	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid)
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION**International Inventories**

TSCA Listed.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

CERCLA

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQS	CERCLA/SARA RQ	REPORTABLE QUANTITY (RQ)
Phosphoric Acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 311/312 Hazard Categories

Not determined

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CWA (Clean Water Act)

CHEMICAL NAME	CWA-REPORTABLE QUANTITIES	CWA-TOXIC POLLUTANTS	CWA-PRIORITY POLLUTANTS	CWA-HAZARDOUS SUBSTANCES
Phosphoric Acid 7664-38-2 (Proprietary)	5000 lb			X

US State Regulations**California Proposition 65**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Phosphoric Acid 7664-38-2	X	X	X

16. OTHER INFORMATION

NFPA	Health hazards	N/D	Flammability	N/D	Reactivity	N/D	Other	N/D
HMIS	Health hazards	2	Flammability	0	Reactivity	0	Personal protection	P & N

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Revision Note New format

N/A = Not Applicable; N/D = Not Determined

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet