

Product name Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

Product ID: Cartridge Cleaner

Chemical Name: Not available
Synonyms: Not available
Chemical Formula: Not available
CAS Number: Not available
Product Use: Improves Filtration, Extends Cartridge Life
Supplier: Oreq Corporation
42306 Remington Avenue
Temecula, CA 92590
951-296-5076

Emergency Phone# Chemtrec: 1-800-424-9300

**EMERGENCY OVERVIEW
DANGER**



Appearance – Slight Yellowish

Physical State – Liquid

Odor - Mild

GHS Classification

Skin Corrosion/irritation: (Category 1) Serious eye damage/eye irritation (Category 1)

Hazard Statement(s)

H314: Causes severe skin burns and eye damage.

Precautionary Statement(s)

Prevention

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311: IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
P363: Wash contaminated clothing before re-use.

Potential Health Effects

Primary routes of entry are by way of eye, skin and inhalation.



SAFETY DATA SHEET

Product name Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

Potential Health Effects: Eyes

Severe irritation of the eyes and eyelids. If the acid is not quickly removed by thorough irrigation with water, there may be prolonged or permanent visual impairment or total loss of sight. Hydrogen chloride gas escaping from the aqueous solution is immediately irritating to the eyes.

Potential Health Effects: Skin

Irritating and corrosive to skin and can cause severe burns if not properly washed off. Repeated contact of the skin may lead to the development of dermatitis. The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

Potential Health Effects: Ingestion

This product causes severe burns of mucus membranes of the mouth, esophagus, and stomach if swallowed.

Potential Health Effects: Inhalation

Inhalation of gas, mist, fog, or spray will cause severe irritation of the upper respiratory tract, resulting in coughing, burning of the throat, and a choking sensation. Excessive or long-term exposure may result in varying degrees of irritation or damage to the respiratory tract tissues and increased susceptibility to respiratory illness, including pulmonary edema. Prolonged or repeated exposure to concentration in excess of the TLV may cause discoloration and/or erosion of the teeth.

MIXTURES

Chemical Name	CAS #	Percent %
Muriatic Acid	7647-01-0	5 - < 20
Phosphoric Acid	7664-38-2	1 - < 10
Alkyl Dimethyl Benzyl Ammonium Chloride	53516-76-0	1 - < 10
Other components below reportable levels		60 - < 80

Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition.

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

General advice	Do not get in eyes, on skin, or on clothing.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Call a physician immediately. Drink plenty of water. Never give anything by mouth to an unconscious person.



SAFETY DATA SHEET

Product name Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

Extinguishing Media

Suitable Extinguishing Media:

Carbon dioxide, dry chemical and foam may all be used in areas where hydrogen chloride is stored.

Unsuitable Extinguishing Media: Do not use water.

Fire Fighting Equipment/Instructions:

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Personal precautions

Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Do not touch damaged packages or spilled material. Avoid contact with skin, eyes, and inhalation of vapors.

Environmental precautions

Section 311 of the Clean Water Act lists Muratic Acid as a hazardous substance which, if discharged into or upon water, may require immediate response to mitigate danger to public health. Spills or releases should be reported, if required, to the appropriate local, state and federal agencies. See Section 12 for additional Ecological Information.

Methods for cleaning up

Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Do not store in metal containers. Keep out of the reach of children.

Incompatible Products Strong bases. Metals. Reducing agents. Oxidizing agents.

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Muriatic Acid 7647-01-0	Ceiling: 2 ppm	Ceiling 5 ppm (7mg/m ³)	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

Chemical Name	ACGIH TLV	OSHA Table Z-1 (-A)	NIOSH
Phosphoric Acid 7664-38-2	TWA 1 mg/m ³ STEL 3 mg/m ³	PEL 1 mg/m ³ STEL 3 mg/m ³ TWA 1 mg/m ³	REL 1 mg/m ³ STEL 3 mg/m ³



SAFETY DATA SHEET

Product name Clear Spa ¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.
Skin and body protection Wear protective gloves/clothing.
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Physical state: Liquid
Form: No data available.
Color: Slight Yellowish
Odor: Mild
Odor threshold: No data available.
pH: 1.5 – 2.0
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: No data available.
Evaporation rate: No data available.
Flammability (solid, gas): No data available.
Upper/lower limit on flammability or explosive limits
 Flammability limit - upper (%): No data available.
 Flammability limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: No data available.
Solubility(ies)
Solubility in water: No data available.
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.

Stability: Stable under normal conditions
Hazardous Reaction: Do not mix with alkalis or alkali metals to avoid possible violent reaction.
Incompatible Materials: Reacts with Alkalis producing heat.
Reacts with many metals producing heat and Hydrogen Gas.
Avoid contacting this product with strong oxidizers as chlorine will be produced.
Hazardous Decomposition Products: Phosphorus Pentoxide

Information on likely routes of exposure

Component Information- MURIATIC ACID

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Muriatic Acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h
Water 7732-18-5	> 90 mL/kg (Rat)	None Established	None Established

Product name **Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner**

Revision date **7-12-15**

Information on toxicological effects

Chemical Name	ACGIH	IARC	NTP	OSHA
Muriatic Acid 7647-01-0	-	Group 3	None Established	-
Water 7732-18-5	-	None Established	None Established	-

Component Information- PHOSPHORIC ACID

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric Acid 7664-38-2	ATEmix (): 1,578.947368 mg/kg	ATEmix (): 3,326.31579 mg/kg	No Data Available

Information on toxicological effects

Chemical Name	ACGIH	IARC	NTP	OSHA
Phosphoric Acid 7664-38-2	-	None Established	None Established	-

Component Information- ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl Dimethyl Benzyl Ammonium Chloride 53516-76-0	430 mg/kg (Rat)	3560 mg/kg (Rat)	No Data Available

Information on toxicological effects

Chemical Name	ACGIH	IARC	NTP	OSHA
Alkyl Dimethyl Benzyl Ammonium Chloride 53516-76-0	-	-	-	-

Ecotoxicity

Acute hazards to the aquatic environment:

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Muriatic Acid 7647-01-0	None Established	282: 96 h Gambusia affinis mg/L LC50 static	None Established
Water 7732-18-5	None Established	None Established	None Established

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Phosphoric Acid 7664-38-2	No Data Available	No Data Available	No Data Available

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Alkyl Dimethyl Benzyl Ammonium Chloride 53516-76-0	No Data Available	LC50: Striped bass (Morone saxatilis) 0.5 mg/l, 96 hours LC50: Bluegill (Lepomis macrochirus) 0.515 mg/l	NOEL: 0.0042 mg/l



SAFETY DATA SHEET

Product name Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

Persistence and degradability No information available.
Bioaccumulation/Accumulation No information available.
Mobility in Soil No information available.

Environmental Fate

When released into the soil, Muriatic Acid is not expected to biodegrade and may leach into groundwater.

Waste Disposal Instructions

The materials resulting from clean-up operations may be hazardous wastes and, therefore, subject to specific regulations. Package, store, transport and dispose off all clean-up materials and any contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Shipments of waste materials may be subject to manifesting requirements. Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors.

Ensure that all federal, state and local agencies receive proper notification of spill and disposal methods. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

DOT

UN Number: 1789
UN Proper Shipping Name: Compound, Cleaning Liquid, N.O.S.
Transport hazard class(es)
Class: 8
Label(s): 8
Packing Group: II
Marine Pollutant: Not regulated

IATA

UN Number 1789
Proper shipping name Compound, Cleaning Liquid, N.O.S.
Hazard Class 8
Packing group II

IMDG/IMO

UN Number 1789
Proper shipping name Compound, Cleaning Liquid, N.O.S.
Hazard Class 8
Packing group II

Muriatic Acid

International Inventories

TSCA	Complies	IECSC	Complies
DSL/NDL	Complies	KECL	Complies
EINECS/ELINCS	Complies	PICCS	Complies
ENCS	Complies	AICS	Complies

US Federal Regulations

A: General Product Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the Controlled Products Regulations.



SAFETY DATA SHEET

Product name Clear Spa¹⁰⁴ Spa Solutions Cartridge Cleaner

Revision date 7-12-15

This product has been classified hazardous under OSHA regulations (29 CFR 1910.1200).

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

WHMIS Classification: D2B, B3

Additional Regulatory Information

None

Phosphoric Acid

US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Phosphoric Acid Reportable quantity: 5000 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

Not listed.

SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity RQ

Phosphoric Acid 5000 lbs.

SARA 311/312 Hazardous chemical

Chemical identity Threshold Planning Quantity

Phosphoric Acid 500 lbs

SARA 313 (TRI reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Phosphoric Acid Reportable quantity: 5000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

HMIS Ratings: Health: 3 Fire: 0 Physical Hazard: 0
NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0

DATE OF PREPARATION

7-12-2015

THE INFORMATION SUPPLIED ABOVE IS PRESENTED IN GOOD FAITH AND HAS BEEN DERIVED FROM SOURCES BELIEVED TO BE RELIABLE, HOWEVER, NO WARRANTY EXPRESSED OR IMPLIED IS EXTENDED REGARDING ITS ACCURACY OR THE RESULTS TO BE OBTAINED FROM ITS USE SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL. ALL RISKS ARE ASSUMED BY THE USER.