



SAFETY DATA SHEET

Parker Analytical, LLC, 1830 Sawmill Dr., Lucas, TX 75002

IR DESCALER

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Date Prepared: September 1, 2026

SECTION 1: IDENTIFICATION

Product name: IR Descaler

Recommended use: Cleaner, degreaser

Physcial Description: Granular powder with citrus odor

Generic Ingredients: Organic surfactants

Manufacturer: Parker Analytical, LLC

1830 Sawmill Dr.

Lucas, TX 75002

Business Contact:

Customer Service

info@parkeranalytical.com

214-325-4138

Emergency Phone Numbers: US (800) 424-9300 Canada (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health:

Eye irritation: 2A

Specific target organ toxicity - single exposure: 3

Physical:

not classified

DANGER!

Causes Eye Irritation. May Cause Respiratory Irritation.



Precautions:

Prevention:

Do not breathe dust. Use only outdoors or in a well ventilated area. Do not eat, drink or smoke when using this product.

Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.

Response:

If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison/center/doctor/ emergency room/ or 911.

Storage:

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

Disposal:

Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

Citric acid monohydrate

CAS#

5949-29-1

Concentration Wt% (1)

>= 90 - <= 100



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SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures

Most likely work-place exposure routes will be *skin contact* or *inhalation*.

For *skin contact*, typically no immediate effects will be observed. A tingling or burning sensation might be felt some time after exposure. Slight reddening or minor irritation could also develop if product is not quickly washed off.

Inhalation exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

Eyes

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, doctor, physician or other competent medical authority for medical advice. Parker Analytical, LLC recommends that after any eye exposure a physician be seen immediately.

Ingestion

If swallowed: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a local Poison Control Center, physician, or other competent medical authority for medical advice.

Skin

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice.

Special Treatment / Other

None

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

Classification: Non-flammable

Flash Point: None-to-boil

Autoignition Temperature: Not applicable

Lower Flammable Limit: Not applicable **Upper Flammable Limit:** Not applicable

Specific Hazards

Product is a powder and presents no unusual fire hazards.

Extinguishing Media

Use extinguishing agents appropriate for controlling surrounding fire.

Unsuitable: None.

Protection & Precautions for Firefighters

Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

Fire Fighting Guidance: Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material. Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

Hazardous Combustion Products: Smoke, fumes, and oxides of carbon, phosphorus, silicon, and sulfur when burned.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill

Sweep up material. Put all material into proper waste disposal container with lid tightly covered. Rinse area with plenty of water.

Water Spill

This is a powder that will completely mix/dissolve in water making recovery difficult. Undissolved powder should be recovered if possible. This product is alkaline and will raise the pH of surface waters. Localized high concentration of product may cause fish kills, but no persistent or long term effects are anticipated. Check with local environmental regulatory agencies for reporting requirements.

See SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.

SECTION 7: HANDLING & STORAGE

Handling

Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container.

Storage

Store locked up. Keep container tightly closed when not in use. Do not store near strong acids. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal Protection

Inhalation A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

Skin Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

Eyes Parker Analytical, LLC recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

Additional Remarks

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Occupational Exposure Limits

Component Name	Source	Value	Type	Notation
Citric Acid Monohydrate	ACGIH	2 mg/m ³	Ceiling	
	NIOSH	2 mg/m ³	Ceiling	
	OSHA	2 mg/m ³	TWA	



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SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: white free flowing powder
Odor: bland
Odor Threshold: not determined
pH: not applicable
Melting Point / Freezing: not applicable
Boiling Point / Boiling Point Range: not applicable
Flash Point: not applicable
Evaporation Rate: not applicable
Flammability: not applicable
Lower Flammable Limit: not applicable
Upper Flammable Limit: not applicable
Explosive Properties: not applicable
Vapor Pressure: not applicable
Relative Vapor Density: equal to water
Relative Density: not applicable
Solubility (Water): soluble in water
Partition Coefficient (K_{ow}): not determined
Auto-ignition temperature: not applicable
Decomposition temperature: not applicable
Viscosity: not applicable

SECTION 10: STABILITY & REACTIVITY

Reactivity

Product will react with acids. Addition of acid or water to this product may generate large amounts of heat and may cause splattering.

Chemical Stability

Stable.

Hazardous Reactions

Mixing with acids will give off heat and may cause splattering.

Conditions to Avoid

Do not store near strong acids.

Incompatible Materials

Strong acids.

Hazardous Decomposition Products

Smoke, fumes, and oxides of carbon, phosphorus, silicon, and sulfur when burned.



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary

This product is a powder and contains citric acid. The product should be considered corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of dust may be corrosive. Possible effects include irritation to exposed tissues if immediate action is not taken.

Acute Toxicity:

Dermal: No data available
Inhalation: No data available
Oral: No data available

Skin Corrosion/Irritation

Corrosive. Causes skin burns. Prolonged or repeated skin exposures can result in dermatitis.

Serious Eye Damage/Irritation

Corrosive. Causes serious eye damage which can result in severe irritation, pain and burns, and permanent damage including blindness.

Sensitization - Respiratory or Skin

No data for the product. Based upon components, product is not expected to be a respiratory or skin sensitizer.

Germ Cell Mutagenicity

No data for the product. Based upon components, product is not expected to result in germ cell mutagenicity.

Carcinogenicity

Does not contain a material listed by ACGIH, IARC, or NTP as a carcinogen.

Reproductive / Developmental Toxicity

No data for the product. Insufficient data for the components to evaluate. Based upon partial component data, product is not expected to be a reproductive or developmental toxicant.

Specific Target Organ Effects - Single Exposure

No data for the product.

Specific Target Organ Effects - Repeated or Prolonged Exposure

No data for the product.

Frequent ingestion over extended periods of time of gram quantities of sodium silicate are associated with kidney stone formation and other siliceous urinary calculi in humans.

Inorganic phosphates have been extensively studied because of their use as food additives. Very high oral doses (1% in the diet) have produced toxic effects on the kidneys and parathyroid glands.

Aspiration Hazard

Product form makes it not likely to be an aspiration hazard.



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SECTION 12: ECOLOGICAL INFORMATION

Product Summary

This material is acidic and will lower the pH of surface waters. Product should be considered harmful to aquatic organisms. (Acute aquatic toxicity Category 3 by European Union classification).

Ecotoxicity

LC50/EC50 10-100 mg/l (estimated using additivity formula)

Persistence and Degradability

Inorganic components will dissociate into their ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize them. The surfactants used are biodegradable.

Bioaccumulative Potential

Bioaccumulation potential of the materials used in this product are low.

Other Adverse Effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

The product as received is a nonhazardous waste. Wet powder or solutions may be a D002 Corrosive Hazardous Waste if they have a pH equal to or greater than 12.5. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Note: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

SECTION 14: TRANSPORT INFORMATION

ID No.: UN3262
Proper Shipping Name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (contains Citric Acid Monohydrate)
Hazard Class: 8
Packing Group: III
Label: CORROSIVE
Marine Pollutant: No
RQ: 25,000 lbs of product
Special Precautions: none

SECTION 15: REGULATORY INFORMATION

TSCA

The ingredients in this product are listed on the TSCA inventory.

RCRA HAZARD CLASS

Nonhazardous waste - see comments in Section 13.

SARA 311/312 REPORTABLE HAZARD CATEGORIES: Immediate (Acute) Health Fire

REPORTING REQUIREMENTS (all quantities in pounds)



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Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	CAA 112(r) TQ	CWA / OPA
Citric Acid Monohydrate	5949-29-1			1,000			
Product RQ for component				25,000			
(1) Releases exceeding the RQ just be reported to the National Response Center, 800-424-8802 and may be subject to state and local reporting.							

NEW JERSEY RIGHT-TO-KNOW INFORMATION

This product contains citric acid monohydrate (CAS# 5949-29-1)

CALIFORNIA PROPOSITION 65 INFORMATION

This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION

Is there a photochemically reactive material present? No

What is the % by volume of photochemically reactive material? 0

What is the VOC content? 0

What is the vapor pressure of VOC's? 0

SECTION 16: OTHER INFORMATION

REVISION SUMMARY

Change in Section 1

SUPERSEDES ISSUE DATE

April 1, 2015

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	0	0
REACTIVITY	0	0
	B	

KEY

4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 214-325-4138

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