SAFETY DATA SHEET

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

IR CLEAN

Date Prepared: September 1, 2026

SECTION 1: IDENTIFICATION

Product name: IR CLEAN
Recommended use: Reagent for analysis
Physcial Description: Colorless, odorless liquid
Generic Ingredients: Potassium hydroxide solution

Manufacturer:
Parker Analytical, LLC
1830 Sawmill Dr.
Lucas, TX 75002
214-325-4138

Business Contact:
Customer Service
info@parkeranalytical.com

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

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health: Skin corrosion: 1A Serious eye damage: 2 Short-term (acute) aquatic hazard: 3	Acute toxicity - oral: 4 Long-term (chronic) aquatic hazard: 1 **Physical:** Corrosive to metals: 1

DANGER!
Causes Severe Skin Burns and Eye Damage.
May Cause Respiratory Irritation.
Harmful if Swallowed.

Precautions:

Prevention:

Do not eat, drink or smoke when using this product.

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, make victim drink water (two glasses at most). Consult a physician.
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	CAS#	Concentration Wt% (1)
Caustic potash (potassium hydroxide solution)	1310-58-3	>= 2 - < 5

SECTION 4: FIRST-AID MEASURES

General Description of Symptoms & First-Aid Measures
Most likely work-place exposure routes will be *skin contact* or *ingestion*.

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.

Ingestion may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include vomiting, irritations of the mucous membranes in the mouth. pharynx, esophagus and gastrointestinal tract. Risk of aspiration upon vomiting Aspiration may cause pulmonary edema and pneumonia.

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 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: Not classified as explosive.
Flash Point: 484 *F / 6 *C
Autoignition Temperature: No data available
Lower Flammable Limit: No data available **Upper Flammable Limit:** No data available

Specific Hazards
Not combustible, vapors are heavier than air and may spread along floors. Ambient fire may liberate hazardous vapors.

Extinguishing Media
Use appropriate extinguishing agents for controlling fire. Water, foam, carbon dioxide (C02) or dry powder.

Unsuitable: None.

Protection & Precautions for Firefighters

Protective Equipment & Clothing: Wear positive pressure Self-contained breathing apparatus (SCBA)

in case of fire.

Protection & Precautions for Firefighters

Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Land Spill
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions and take up with liquid-absorbant material. Dispose of properly. Clean up affected area.

Water Spill
Cover drains immediately. This product is pH neutral. 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 120^0F (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 anorganic 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

	Source	Value	Type	Notation
Potassium hydroxide	ACGIH NIOSH OSHA	2 mg/m^3	C	1310-58-3

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: colorless liquid

Odor: odorless

Odor Threshold: no data available

pH: 13.5 (68 *F / 20 *C)

Melting Point / Freezing: no data available

Flash Point: not applicable

Evaporation Rate: no data available

Flammability: no data available

Lower Flammable Limit: no data available

Explosive Properties: not applicable

Vapor Pressure: no data available

Relative Vapor Density: no data available

Density: 1.02 g/cm3 (68 *F / 20 *C)

Solubility (Water): soluble (68 *F / 20 *C)

Partition Coefficient (K_{ow}): not determined

Viscosity: no data available

SECTION 10: STABILITY & REACTIVITY

Reactivity
No data available.

Chemical Stability
Stable under ambient conditions (room temperature).

Hazardous Reactions
Violent reactions possible with: metals, light metals, azides, strong acids, anhydrides, hydrocarbons, nonmetallic oxides, phosphorus, organic nitro compounds, halogen oxides, nonmetallic oxyhalides, halogenated hydrocarbon, halogen-halogen compounds, halogens, alkaline earth metals, ammonium compounds. Violent reactions possible with: the generally known reaction partners of water.

Conditions to Avoid
Do not store near strong acids. Avoid heating.

Incompatible Materials
animal, vegetable tissues, glass, various plastics, metals.

Hazardous Decomposition Products
In the event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary
This product is a 5% solution in water. The product should be considered corrosive to all tissues. Contact with skin and/or eyes, ingestion, or inhalation of atomized particles may be corrosive. Possible effects include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.

Acute Toxicity:

Dermal: LD50 > 2,000 mg/kg rabbit (OECD Test Guideline 404)
Inhalation: No data available
Oral: LD50 about 1,900 - 5,000 mg/kg rat (External SDS)

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. Risk of corneal clouding.

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 OSHA, IARC, or NTP as a carcinogen.

Reproductive / Developmental Toxicity
Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity. Did not show teratogenic effects in animal experiments.

Specific Target Organ Effects - Single Exposure
No data for the product.

Specific Target Organ Effects - Repeated or Prolonged Exposure
No data for the product.

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

SECTION 12: ECOLOGICAL INFORMATION

Product Summary
This material is a strong alkaline and will raise the pH of surface waters. Product should be considered harmful to the environment.

Ecotoxicity
LC50 80 mg/l (Gambusia affinis (mosquito fish)) Exposure time: 96h.

Persistence and Degradability
Aerobic biodegradability.

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

Other Adverse Effects
Harmful due to pH shift. Caustic even in diluted form.

SECTION 13: DISPOSAL CONSIDERATIONS

The product as received is considered environmentally hazardous. 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.:	UN1814
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (p-tertiary-Octylphenoxy polyethyl alcohol)
Hazard Class:	8
Packing Group:	II
Label:	Class 8
Marine Pollutant:	No
RQ:	Not regulated as a dangerous good
Special Precautions:	

SECTION 15: REGULATORY INFORMATION

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

RCRA HAZARD CLASS
Acute health hazard - see comments in Section 13.

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

REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	CAA 112(r) TQ	CWA / OPA
potassium hydroxide	1310-58-3			1000			
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 potassium hydroxide (CAS# 1310-58-3)

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

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	4	4
FLAMMABILITY	1	1
REACTIVITY	1	1
	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