



SAFETY DATA SHEET

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

IR ZERO

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Date Prepared: September 1, 2026

SECTION 1: IDENTIFICATION

Product name: IR Zero

Recommended use: Laboratory chemicals, Synthesis of substances

Physcial Description: Colorless, odorless liquid

Generic Ingredients: Inorganic builders and surfactants

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 irritation: 2

Serious eye damage: 1

Short-term (acute) aquatic hazard: 1

Acute toxicity - oral: 4

Long-term (chronic) aquatic hazard: 1

Physical:

not classified

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.

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: Immediately 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

Octylphenol polyethoxyethanol

Polyethylene glycol, average MW 8,000

CAS#

9036-19-5

25322-68-3

Concentration Wt% (1)

>= 80 - <= 100

>= 1 - <= 5



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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 *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

Combustible, vapors are heavier than air and may spread along floors. Forms explosive mixtures with air upon intense heating. Development of hazardous combustion gases or vapors possible in the event of fire.

Extinguishing Media

Use appropriate extinguishing agents for controlling fire. Water, foam, carbon dioxide (CO₂) or dry powder.

Unsuitable: None.

Protection & Precautions for Firefighters

Protective Equipment & Clothing: Wear positive pressure self-contained breathing apparatus

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact with suitable protective clothing.

Fire Fighting Guidance:

Do not breathe vapors or aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Hazardous Combustion Products: Carbon oxides



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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°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
Polyethylene glycol, average MW 8,000	ACGIH NIOSH OSHA	10 mg/m ³	TWA	25322-68-3



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SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: viscous liquid
Odor: weak
Odor Threshold: no data available
pH: 5.0 - 8.0 (68 °F / 20 °C) 10 g/l concentration
Melting Point / Freezing: 43 °F / 6 °C
Boiling Point / Boiling Range: >392 °F / >200 °C
Flash Point: 484 °F / 251 °C
Evaporation Rate: no data available
Flammability: no data available
Lower Flammable Limit: no data available
Upper Flammable Limit: no data available
Explosive Properties: not applicable
Vapor Pressure: < 0.01 hPa (68 °F / 20 °C)
Relative Vapor Density: no data available
Relative Density: no data available
Solubility (Water): soluble (68 °F / 20 °C)
Partition Coefficient (K_{ow}): not determined
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity: no data available

SECTION 10: STABILITY & REACTIVITY

Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical Stability

Stable under ambient conditions (room temperature).

Hazardous Reactions

Violent reactions possible with strong oxidizing agents and strong acids.

Conditions to Avoid

Do not store near strong acids. Avoid heating.

Incompatible Materials

Strong acids.

Hazardous Decomposition Products

In the event of fire: see section 5.



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary

This product is a 10% solution in deionized 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.



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SECTION 12: ECOLOGICAL INFORMATION

Product Summary

This material is slightly alkaline and will raise the pH of surface waters. Product should be considered harmful to aquatic organisms. (Acute aquatic toxicity Category 1 by European Union classification).

Ecotoxicity

LC50 4 - 8.9 mg/l (Pimephales promelas (fathead minnow)) Exposure time: 96h.

Persistence and Degradability

Aerobic biodegradability.

Bioaccumulative Potential

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

Other Adverse Effects

Causes endocrine disruption. Discharge into the environment must be avoided.

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.:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (p-tertiary-Octylphenoxy polyethyl alcohol)
Hazard Class:	9
Packing Group:	III
Label:	Class 9 - Miscellaneous dangerous substances and articles
Marine Pollutant:	No
RQ:	Not regulated as a dangerous good
Special Precautions:	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) Packages <= 5 kg / L not dangerous goods of Class 9

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)



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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
Polyethylene glycol				TWA (aerosol)			
Product RQ for component				10 mg/m3			
(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 polyethylene glycol (CAS#25322-68-3).

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	1	1
FLAMMABILITY	1	1
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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