SAFETY DATA SHEET

Product name: Liquid pHinal

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Liquid pHinal

Recommended use of the chemical: Cleaning agent. We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Company Identification: Monaghan Corporation
2017 Dean Avenue
Des Moines, Iowa 50317
United States of America

Customer information number: (515-266-2120)

CHEMTREC Emergency phone number (24h): (800) 424-9300 USA

SECTION II – HAZARDS IDENTIFICATION

GHS Classification
Skin Corrosion/Irritation – Category 1A
Serious Eye Damage/Eye irritation – Category 1

GHS label elements
hazard pictograms/symbols

Signal word: Danger

Hazard statement:
Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention: Do not breathe dust or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated before reuse.

Storage: P420: Store away from other materials.

Disposal: P501: Dispose of contents/container to be specified in accordance with regulation.
### SECTION III – INFORMATION OF INGREDIENTS

IF PRESENT IARC, NTP AND OSHA CARCINOGENS AND CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS#</th>
<th>PEL</th>
<th>TLV</th>
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<tbody>
<tr>
<td>Glycolic Acid</td>
<td>79-14-1</td>
<td>N/E</td>
<td></td>
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<tr>
<td>Water</td>
<td>7732-18-5</td>
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</table>

The specific chemical identities/components of this product are considered by NORCHEM to be trade secrets and are withheld in accordance with the provisions of 1910.1200 Title 29 of the federal Regulation Code.

### SECTION IV – FIRST AID AND MEASURES

**Inhalation:** If inhaled, immediately move to fresh air. Call a physician or Poison Control immediately.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 18 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call a physician or Poison Control immediately.

**Skin Contact:** Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Rinse mouth. Call a physician or Poison Control immediately. Never give liquid to an unconscious person. Do not induce vomiting without advise from a poison control center.

**Most important symptoms/effects, acute and delayed:**

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.

**Indication of immediate medical attention and special treatment needed:**

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### SECTION V – FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire Fighting Equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Personal precautions, protective equipment and emergency procedures:**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground
SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Appearance: Clear/odorless

Boiling Point Range: N/A

Vapor Pressure: N/D

Vapor Density (Air=1): N/A

Specific Gravity: 1.24

pH of .01% Solution: 2.2 – 3

Melting Point/Freezing Point: N/A

SECTION X – STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials. Avoid heat or contamination.

Incompatible materials: Strong acids. Strong bases.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin contact: Causes severe skin burns.

Eye contact: Causes serious eye irritation.

Ingestion: May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.
Respiratory or skin sensitization
Respiratory sensitization: Not a respiratory sensitizer.
Skin sensitization: This product is not expected to cause skin sensitization.
Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Environmental Fate:
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability: No data is available on the degradability of this product.
Bio accumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations
Local disposal regulations: Dispose in accordance with all applicable regulations
Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

DOT
UN3265, Corrosive liquid, acidic, organic, n.o.s. (Glycolic Acid), 8, PG II
DOT information on packaging may be different from that listed.

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
SARA 304 Emergency release notification
SARA 302 Extremely hazardous substance: Not listed.
SARA 311/312 Hazardous chemical: Chemical Identity Threshold Planning Quantity Glycolic acid 500 lbs Not regulated.
SARA 313 ( TRI reporting)
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.
US state regulations
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed
US. Massachusetts RTK Substance List Not regulated
US. New Jersey Worker and Community Right-to-Know Act Not listed.
US. Pennsylvania Worker and Community Right-to-Know Law Not listed.
US. Rhode Island RTK Not regulated.
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Hazard Rating System

NFPA Health Fire Reactivity
1 0 0

The information on this safety data sheet is believed to be accurate and it is the best information available to Norchem Corporation. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. Norchem Corporation makes no warranty of merchantability or any other warranty, express or implied with respect to such information of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

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<thead>
<tr>
<th>Inventory Status</th>
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<tr>
<td>Canadian Non-Domestic Substances List (NDSL)</td>
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<td>Australia Australian Inventory of Chemical Substances (AICS)</td>
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<td>New Zealand New Zealand Inventory</td>
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<td>United States and Puerto Rico Toxic Substances Control Act (TSCA) Inventory</td>
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