

1. Identification

- Trade name: Redi Clean Acid Activator
- Product Identifier: Redi Clean Acid Activator

- Manufacturer: Continental Technologies, Inc
- 214 Main St., Little Rivers, KS 67457
- Emergency telephone number: (800) 647-5874

- CHEMTREC 1-800-424-9300
- CHEMTREC INTERNATIONAL: 703-527-3887

- Use: Industrial. For professional use only

- Chemical Family: Inorganic acids and surfactant
- Chemical formula: Proprietary information

2. Hazard(s) identification

- Hazard classification: Corrosive (8); ORM-D in Consumer Commodity quantities per 49CFR173.154(c)
- Label elements: Hazard symbol



- Causes severe skin burns and eye damage
- May be corrosive to metals
- One of the ingredients in this mixture is a SARA Title III Section 313 Chemical. The identity of this component will be made available to employees, health professionals, and designated representatives of our customers in accordance with regulatory requirements under appropriate circumstances.

3. Composition/information on ingredients

- Chemical Name: Trade Secret: Proprietary Data
- Concentrations of Mixture:
Phosphoric acid solution: >=5 - <=95% CAS number: 7664-38-2
Water: >=5 - <=95%

4. First-aid measures

- Odor Threshold: Non-Detectable
- Acute over exposure effects:
 - SKIN: Severe irritation
 - EYES: Severe irritation, burns. Prolonged or repeated contact may cause irreversible damage, blindness
 - INHALATION: Irritation, coughing
 - INGESTION: Irritation, burns, pain, nausea, vomiting, shock symptoms (rapid pulse, sweating, collapse)
- Specific First Aid Procedures:
 - SKIN: Immediately remove contaminated clothing and shoes. Flush affected area with plenty of water for 15 minutes. Obtain immediate medical attention. Thoroughly clean clothing before reuse. Discard contaminated shoes and contaminated leather articles
 - EYES: Immediately flush affected area with plenty of water for 15 minutes. Obtain immediate medical attention
 - INHALATION: Remove to fresh air immediately. Give artificial respirations or oxygen as needed. Obtain immediate medical attention
 - INGESTION: DO NOT INDUCE VOMITING. Rinse mouth with water. If conscious and alert, give water to dilute stomach contents. If spontaneous vomiting occurs, keep head below hips to prevent aspirations and give water again

5. Fire-fighting measures

- Use firefighting measures for surrounding fire
- Structural firefighting gear with SCBA required
- Avoid splashing material

6. Accidental release measures

- Evacuate all non-essential personnel, eliminate ignition sources, and wear protective equipment. Shut off source or leak only if safe to do so. Contain spill. Recover free product. To clean up residue, flush sparingly with water or use absorbent. Avoid run-off to ground water, surface water, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low ph) is a problem, neutralize with hydrated lime, soda ash, or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities

7. Handling and storage

- Always wear protective equipment when handling. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT breathe vapor or mist. DO NOT get in eyes, on skin or clothing. DO NOT swallow. Heat is generated upon dilution with water. When diluting, add product slowly to water with agitation
- ATTENTION: This container is hazardous when emptied. Since emptied container contains product residues (vapor or liquid), all labeled hazard precautions must be observed. Keep container closed when not in use. Keep out of reach of children

8. Exposure controls/personal protection

Component	Exposure Limits	Basis	Entity
Phosphoric Acid Solution	1mg/m ³	PEL/TWA	OSHA
	1 mg/m ³	TLV	ACGIH
	3 mg/m ³	STEL	ACGIH

TWA: Time Weighted Average over 8 hours of work

TLV: Threshold Limit Value over 8 hours of work

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

- RESPIRATORY PROTECTION: If TLV is exceeded, or if exposure may occur, use NIOSH/MSHA-approved self-contained breathing apparatus
- VENTILATION: Special ventilation may be required if operating conditions result in release of vapors exceeding PEL/LTV. Mechanical general ventilation is usually adequate
- PROTECTIVE GLOVES: Acid proof gloves
- EYE PROTECTION: Chemical splash goggles, with full-face shield in high exposure situations. Do not wear contact lenses
- OTHER PROTECTIVE EQUIPMENT: Clean body covering clothing, rubber aprons, rubber boots should be worn when handling product. Eye wash fountain, safety shower, and lavatory should be readily available

9. Physical and chemical properties

• Appearance:	Clear to light yellow liquid
• Upper explosive limit:	Not determined
• Lower explosive limit:	ND
• Odor:	No appreciable odor
• Vapor pressure:	5.7 mmHg at 68 °F
• Odor threshold:	ND
• Vapor density:	Not Applicable
• pH:	~1.0 - 2.0
• Relative density:	Calc. 1.573 at 68°F
• Melting point:	NA
• Freezing point:	1 °F
• Solubility:	Complete in water
• Boiling point:	Calc. >275°F
• Flash point:	NA
• Evaporation rate:	ND
• Flammability (solid, gas):	NA
• Partition coefficient: n-octanol/water:	ND
• Auto-ignition temperature:	NA
• Decomposition temperature:	NA
• Viscosity:	NA

10. Stability and reactivity

- Reactivity: Incompatible materials
- Chemical stability: Stable
- Thermal decomposition: No data available
- Possibility of hazardous reactions: Contact with some metals can generate explosive hydrogen gas
- Conditions to avoid: No data available
- Incompatible materials: Inorganic bases, organic bases, metals, metal blends.
- Hazardous decomposition products: Oxides of phosphorus

11. Toxicological information

- No data available

12. Ecological information

- Product may be toxic to fish or aquatic life

13. Disposal considerations

- Solids must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted hazardous waste management facility, Dispose of material in accordance with Federal, state, local regulations. Local regulations may be more stringent. Avoid discharge into sewers or waterway

14. Transport Information**DOT**

Transport Class(es):	8.0 Corrosive; ORM-D in Consumer Commodity quantities per 49 CFR 173.154(c)
UN Number:	UN1760
Packing group:	III
UN proper shipping name:	Corrosive liquid, NOS (Phosphoric acid); Consumer commodity in limited quantities

15. Regulatory Information

- No additional information

16. Other information

- Last MSDS update: 12/28/2011