

1. Identification

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

- 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

3. Composition/information on ingredients

- Chemical Name: Trade Secret: Proprietary Data
- Concentrations of Mixture: Sulfamic Acid Solid 60% CAS number: 5329-14-6
Trade Secret: 40%

4. First-aid measures

- Odor Threshold: Non-Detectable
- Acute over exposure effects:
 - SKIN: Moderate to Severe irritation
 - EYES: Moderate to Severe irritation, burns. Prolonged or repeated contact may cause irreversible damage, blindness
 - INHALATION: Coughing, Mucous membrane irritation, possibly severe. May aggravate existing respiratory conditions
 - INGESTION: Severe irritation, possible tissue damage, 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; discard leather products and shoes
 - EYES: Immediately flush affected area with plenty of water for 15 minutes, retracting eyelids. 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 or milk to dilute stomach contents. If spontaneous vomiting occurs, keep head below hips to prevent aspirations and give water again

5. Fire-fighting measures

- Not considered a fire hazard; Use media appropriate for surrounding fire
- Dry chemical, carbon dioxide, water spray, foam, water fog
- Do not use direct stream of water
- Use water to cool containers exposed to fire
- Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate all non-essential personnel
- Structural fire fighting gear with SCBA required
- Avoid splashing material
- NFPA Classification: Health:3; Flammability: 0; Reactivity: 1; Specific Hazard: NA

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

- Store in original containers in a cool, dry area away from source of ignition and incompatible materials. Keep tightly closed when not in use. Keep away from children. Use and store with good ventilation. When diluting, add product slowly to water with agitation, never add water to acid. Avoid personal contact with product, always wear protective equipment. "Empty" container retains hazardous residue; all labeled hazard precautions must be observed

8. Exposure controls/personal protection

Component	Exposure Limits	Basis	Entity
Sulfamic Acid	No data	NA	OSHA/ACGIH
Trade Secret	2.5 mg/m ³	PEL	OSHA
	2.5 mg/m ³	TLV	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, a NIOSH/MSHA approved self-contained breathing apparatus should be readily available
- VENTILATION: Special ventilation may be required if operating conditions result in release of vapors exceeding PEL/TLV

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Redi Clean
Continental Technologies, Inc.

- 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: Acid proof clothing and rubber boots should be worn in high exposure situations. Eye wash fountain, safety shower, and lavatory should be readily available

9. Physical and chemical properties

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| • Appearance: | Odorless/White granular/flakes |
| • Upper explosive limit: | NA |
| • Lower explosive limit: | NA |
| • Odor: | No appreciable odor |
| • Vapor pressure: | NA |
| • Odor threshold: | ND |
| • Vapor density: | NA |
| • pH: | ND |
| • Relative density: | NA |
| • Melting point: | NA |
| • Freezing point: | ND |
| • Solubility: | Complete in water |
| • Boiling point: | ND |
| • Flash point: | NA |
| • Evaporation rate: | ND |
| • Flammability (solid, gas): | NA |
| • Partition coefficient: n-octanol/water: | ND |
| • Auto-ignition temperature: | NA |
| • Decomposition temperature: | NA |
| • Viscosity: | ND |

10. Stability and reactivity

- Chemical stability: Stable
- Conditions or Reactivity: Heat, sparks, flames, incompatible materials
- Incompatible materials: Strong alkali, chlorine, potassium chloride, nitric acid, metal sulfides, nitrates, bases and bromine gas

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- Hazardous decomposition products: Contact with some metals can generate explosive hydrogen gas. Toxic and corrosive fumes of ammonia, toxic oxides of nitrogen and sulfur, phosphoric acid, phosphine
- Hazardous polymerization: Will not occur
- Polymerization avoid: NA

11. Toxicological information

- No data available

12. Ecological information

- Product may be toxic to fish or aquatic life

13. Disposal considerations

- Material that cannot be used or chemically reprocessed should be disposed of in an approved facility in accordance with any applicable regulations under the Resources Conservation and Recovery Act. Dispose of material in accordance with all Federal, state, local regulations. Local regulations may be more stringent. Avoid discharge into sewers or waterways

14. Transport Information

DOT Transport Class(es): ORM-D in Consumer Commodity quantities per 49 CFR 173.154(c)
UN Number: NA
Packing group: NA; Packaging size 10lb; 20lb; 40lb
UN proper shipping name: ORM-D; Consumer commodity in limited quantities

15. Regulatory Information

- No additional information

16. Other information

- Last MSDS update: 12/28/2011