

## Safety Data Sheet

# COLMAN'S FUELGEN SOLUTION

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Coleman's Fuelgen Solution

**Catalog Numbers:** SO-311& E-312-1

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### **GHS Classifications Category** **HEALTH HAZARDS**

H302-Acute Oral Toxicity: 4

H312-Acute Dermal Toxicity: 4

H316-Skin Corrosion/Skin Irritation: 3

H320-Eye damage/Irritation: 2B

H334-Respiratory Sensitization-1

H335-Specific Target Organ Toxicity-3

H351-Carcinogenicity: 2

#### **PHYSICAL HAZARDS Category**

H290-Corrosive to Metals: 1

#### **ENVIRONMENTAL HAZARD**

**Acute environmental Hazards:** Not classified

**Chronic environmental Hazards:** Not classified

## Pictogram or Hazard Symbols



Warning: Harmful if swallowed.  
Harmful in contact with skin.  
May cause respiratory irritation.



Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer



Warning: May be corrosive to metals.

## Precautionary Statement Prevention.

H302

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**P330** Rinse mouth.

H312

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P312** Call a physician if you feel unwell

**P361 + P363** Take off immediately all contaminated clothing and wash it before reuse.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

H316

**P332 + P313** If skin irritation occurs, get medical advice/attention.

H320

**P264** Wash thoroughly after handling.

**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

H334

**P261** Avoid breathing fumes/mist/vapors.

**P285** In case of inadequate ventilation, wear respiratory protection.

**P304+P341 IF INHALED:** if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P342+P311** if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

H335/H336

**P261** Avoid breathing fumes/mist/vapors.

**P271** Use only outdoors or in a well-ventilated area.

**P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

**P312** If swallowed, call a physician if you feel unwell.

**P403 + P233** Store in a well-ventilated place. Keep container tightly closed.

**P405** Store locked up.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

H290

**P234**-Keep only in original container.

**P390**-Absorb spillage to prevent material damage.

**P406**-Store in corrosive resistant/container with a resistant inner liner

H351

**P201** Obtain special instructions before use.

Section 3 - Composition, Information on Ingredients

| CAS#       | Chemical Name           | Percent   |
|------------|-------------------------|-----------|
| 632-99-5   | Basic Fuchsin           | 0.48 w/v  |
| 16731-55-8 | Potassium Metabisulfite | 0.95 w/v  |
| 7647-01-0  | Hydrochloric Acid       | 0.4 v/v   |
| 7732-18-5  | Water                   | 99.25 v/v |

## Section 4 - First Aid Measures

**Eye Exposure:** Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

**Dermal Exposure:** Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

**Oral Exposure:** Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

## Section 5 - Fire Fighting Measures

**NFPA** HEALTH **1** FLAMMABILITY **0** REACTIVITY **0**

**Extinguishing media:** Water spray. Neutralize with soda ash or slaked lime

**Special fire fighting procedures:** Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Extreme heat or contact with metals can release flammable hydrogen gas.

**Toxic gases released:** Hydrogen chloride, hydrogen gas.

## Section 6 - Accidental Release Measures

**Methods for Cleaning up:** Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Neutralize with alkaline material such as soda ash or lime. Do not use combustibles. Do not flush to sewer.

## Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics. Residue in empty containers may still be hazardous.

## Section 8 - Exposure Controls, Personal Protection

**Respiratory protection:** Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to iodine vapors above 0.1 ppm. A respiratory protection program complying with requirements of 29 CFR 1910.134 is recommended.

**Ventilation:** Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles/ face shield.

Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Clear

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** N/A

**Freezing/Melting Point:** N/A

**Decomposition Temperature:** N/A

**Solubility:** Soluble.

**Specific Gravity/Density:** N/A

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to avoid:** Excess heat, sunlight, confined spaces.

**Hazardous Decomposition Products:** Hydrogen chloride fumes, hydrogen gas

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with other materials:** Most common metals, strong bases, metal oxides, amines, hydroxides, cyanides, sulfides, sulfites, formaldehyde, and carbonates.

Section 11 - Toxicological Information

**RTECS#:** VZ2000000

**LD50/LC50: Potassium Metabisulfite**

CAS# 16731-55-8:

Not Available

**Carcinogenicity:**

CAS# 7631-90-5: Not listed by ACGIH, NTP, or CA Prop 65.

Carcinogenic Group: 3 (not classifiable for human.) by IARC.

**Mutagenicity:** For bacteria and/or yeast. May cause damage to the following organs: lungs, skin.

**CAS#7647-01-0 Hydrochloric Acid**

**Acute:**

Inhalation rat LC50: 4500 ppm/1hr.

Oral rabbit LD50: 1350 mg/kg.

Investigated as a tumorigen, mutagen, and reproductive effector.

**Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg. No**

CAS# 569-61-9: Basic Fuchsin: Not listed by ACGIH, NTP or CA Prop 65.

Classified group 2B carcinogen by IARC

Section 12 - Ecological Information

**Bioaccumulation:** Ehen released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

**Environmental Toxicity:** This material is expected to be toxic to aquatic life.

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

**DOT**

Non-Regulated

Section 15 - Regulatory Information

**Symbol: C, Corrosive**

**Risk and Safety phrases**

**R-35, Causes severe burns**

**S-Phrases: 23-36/37/39-45.** Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible)

The following component of this product is regulated as a toxic chemical under section 313 or Title III SARA, and 40 CFR 372: hydrochloric Acid CAS# 7647-01-0

Section 16 - Additional Information

**MSDS Creation Date:** May 11, 2012

**Revision #** 1 8/14/2014 YM

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