

# Material Safety Data Sheet

## Section 1: Company and Product Identification

**Scholar<sup>TM</sup>**  
**Chemistry**

Manufactured by:  
Columbus Chemical Industries, Inc.  
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|   |              |   |
|---|--------------|---|
| 24 HOUR EMERGENCY ASSISTANCE<br>CHEMTREC 800-424-9300 |              |   |
| HAZARD RATING   |              |   |
| 4- EXTREME  | HEALTH       | 2 |
| 3- SEVERE   |              |   |
| 2- MODERATE   | FLAMMABILITY | 0 |
| 1- SLIGHT   |              |   |
| 0- MINIMAL  | REACTIVITY   | 0 |

**Product Name** Benedict's Qualitative Solution **Material Uses** Not available.

**Product No.** 9404104 **Synonyms** Not available.

**CAS** Mixture **Formula** Not available.

## Section 2: Hazardous Ingredients

| Product Name                     | CAS       | Conc (%) | PIN |
|----------------------------------|-----------|----------|-----|
| 1) Sodium citrate                | 6132-04-3 | 10-30    | N/A |
| 2) Sodium carbonate monohydrated | 5968-11-6 | 5-10     | N/A |
| 3) Cupric sulfate*               | 7758-98-7 | 1-5      | N/A |

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

\* Chemical subject to the reporting of SARA Title III.

## Section 3: Physical Data

|                              |                |                                      |  |
|------------------------------|----------------|--------------------------------------|--|
| Appearance                   | Liquid.        | Odor Threshold                       | Not available.                           |
| Color                        | Blue.          | Vapor Pressure                       | Not available.                           |
| Odor                         | Not available. | Evaporation Rate (Reference solvent) | Not available.                           |
| Specific Gravity (Water = 1) | Not available. | Vapor Density (Air = 1)              | Not available.                           |
| Melting Point                | Not available. | Percent Volatile by Volume           | Not available.                           |
| Boiling Point                | Not available. | pH (1% water soln)                   | Not available.                           |
| Water/Oil Dist. Coeff.       | Not available. | Solubility                           | Easily soluble in cold water, hot water. |

## Section 4: Fire and Explosion Hazard Data

|                                   |                 |                    |                 |
|-----------------------------------|-----------------|--------------------|-----------------|
| Flash Point (Methods)             | Not applicable. | Autoignition Temp. | Not applicable. |
| Flammable Limits in Air by Volume | Not applicable. |                    |                 |
| Flammability                      | Not applicable. |                    |                 |

Explosion Hazard Not available.

Haz. Comb. Prod. Fumes of cyanide may be released when heated to decomposition.

Means of Extinction Use extinguishing media suitable for surrounding materials.

### Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### Unusual Fire and Explosion Hazards

Not available.

## Section 5: Health Hazard Data

Exposure Limits (P.E.L., TLV, etc.) Not available.

Acute Effects Irritates skin, mucous membranes, nose and throat.

Routes of Entry Eye contact. Inhalation. LD50/LC50 LD50: Not available. LC50: Not available.

### Effects of Overexposure

Repeated or prolonged exposure is not known to aggravate medical condition.

### Emergency and First Aid Procedures

SKIN: Wash contaminated skin with soap and water. EYES: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. INHALATION: Move exposed person to fresh air. If irritation persists, get medical attention. INGESTION: If affected person is conscious, give plenty of water to drink. Induce vomiting by touching the back of throat with fingers. Seek medical attention.

## Section 6: Reactivity Data

Stability The product is stable. Instability Temp. Not available.

Incompatibility Reactive with reducing agents, alkalis. Slightly reactive to reactive with oxidizing agents.

Degradation Prod. Not available. Hazardous polymerization? Will not occur.

Materials to Avoid Not available.

## Section 7: Spill or Leak Procedures

Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 8: Protection Equipment Information

Equipment Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

## Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4).

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt Effective Date Printed 8/28/2002

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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Feb. 11