#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# **Benedicts Quantitative Solution**

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

# SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Sodium citrate (68-04-2) 18-21%, sodium carbonate (497-19-8) 9-11%, copper(II) sulfate (7758-98-7) 1-2%, and potassium thiocyanate (333-20-0) 12-14%, potassium ferrocyanide (14459-95-1) <1%, and water (7732-18-5) 50-60%.

CAS#: None established

# SECTION 3 — HAZARDS IDENTIFICATION

Light blue solution. Odorless. Potassium thiocyanate and copper(II) sulfate are moderately toxic. Irritant to skin and eyes. Avoid all body tissue contact.

#### SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately. Eye: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible liquid.

NFPA Code None established

FLINN AT-A-GLANCE

0 is low hazard, 3 is high hazard

Health-0

Flammability-0

Reactivity-0 Exposure-1 Storage-0

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area and ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates, and phosphates.

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Light blue solution. Odorless. Contains: sodium carbonate, sodium citrate, potassium thiocyanate, and copper(II) sulfate.

# SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Indefinite.

# SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A. ORL-RAT  $LD_{50}$ : 300 mg/kg (for  $CuSO_4$ ) IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations. Flinn Suggested Disposal Method #26b is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated Hazard Class: N/A UN Number: N/A N/A = Not applicable

#### SECTION 15 — REGULATORY INFORMATION

Not listed.

# SECTION 16 — OTHER INFORMATION

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# Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.