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SCHOOLCRAFT COLLEGE
PURCHASING DEPARTMENT

MATERIAL SAFETY DATA SHEET

BENEDICT'S QUALITATIVE SOLUTION

Cat # LC 11650

SECTION I

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SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

NAME: BENEDICT'S QUALITATIVE SOLUTION

COMPONENTS:

	CAS	FORMULA/F.WT.
(1) sodium citrate, dihydrate, 15%	6132-04-3	Na ₃ C ₆ H ₅ O ₇ ·2H ₂ O/ 294.1
(2) sodium carbonate, monohydrate, 10%	5968-11-6	Na ₂ CO ₃ ·H ₂ O/ 124.0
(3) cupric sulfate, pentahydrate, 1.5%	7758-99-8	CuSO ₄ ·5H ₂ O/ 249.68
(4) water, balance	7732-18-5	H ₂ O/ 18.0

CERCLA RATING (0-3): Health-U Fire-0 Reactivity-0 Persistence-0
NFPA RATING (0-4): Health-U Fire-0 Reactivity-0

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling pt: about 100C (212F) Melting pt: n/a Sp. gravity: 1.2 Evaporation rate: < ether
Vapor press: n/a Vapor density: n/a pH: alkaline

Appearance/Odor: clear, blue solution/ no odor

Solubility: complete in water

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash pt: not flammable Explosion level-lower(LEL): n/a -upper(UEL): n/a Autoignition: n/a

Extinguishing Media: dry chemical, carbon dioxide, halon, water spray, foam

Firefighting: no acute hazard, move container from fire area. Avoid breathing vapors or dusts.

SECTION V - REACTIVITY DATA

Stability: stable under normal temperatures and pressures.

Condition to Avoid: avoid heating to decomposition and contact with or storage with reactive substances.

Hazardous Decomposition/Byproducts: thermal decomposition may release toxic fumes of sodium and toxic oxides of carbon.

Hazardous Polymerization: none reported under normal temperatures and pressures.

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[Note: n/a means "not applicable" or data "not available".]