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Benedicts Qualitative Solution
02564

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Benedicts Qualitative Solution
Catalog Number:
Synonyms:
Company Identification: Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMREC assistance, call: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	Emecs#
5968-11-6	Sodium Carbonate Monohydrate	10	unlisted
6132-04-3	Sodium Citrate Dihydrate	15	unlisted
7732-18-5	Water	73.5	unlisted
7758-99-8	Cupric sulfate pentahydrate	1.5	unlisted

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: Clear, blue liquid.
Target Organs: Kidneys, liver.

Potential Health Effects

Eye: Exposure to particulates or solution may cause conjunctivitis, ulceration, and corneal abnormalities.

Skin: Causes skin irritation.

Ingestion: May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation.

Chronic: Chronic inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion.

May cause reproductive and fetal effects.

May cause liver and kidney damage.

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Explosion Limits, Lower: Not available.
Upper: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container.

**** SECTION 7 - HANDLING AND STORAGE ****

Handling: Wash thoroughly after handling.
Remove contaminated clothing and wash before reuse.
Use with adequate ventilation.
Do not get on skin or in eyes.
Do not ingest or inhale.
Store in a tightly closed container.
Store in a cool, dry, well ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Carbonate Mo monohydrate	none listed	none listed	none listed
Sodium Citrate Dihy none listed	none listed	none listed	none listed
Water	none listed	none listed	none listed
Cupric sulfate pent none listed	none listed	none listed	none listed

OSHA Vacated PELs:

Sodium Carbonate Monohydrate:
No OSHA Vacated PELs are listed for this chemical.
Sodium Citrate Dihydrate:
No OSHA Vacated PELs are listed for this chemical.
Water:
No OSHA Vacated PELs are listed for this chemical.
Cupric sulfate pentahydrate:
No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin:

Wear natural rubber gloves, apron, and/or clothing.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Liquid
Appearance: Clear, blue liquid.
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: 212 F
Freezing/ melting Point: Not available.
Solubility: Completely soluble in water.
Specific Gravity/Density: 1.2
Molecular Formula: Not available.
Molecular Weight: Not available.

