

MALLINCKRODT

Material Safety Data Sheet

Mallinckrodt, Inc. Science Products Division, P.O. Box M Paris, KY 40361

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Emergency Telephone Number: 314-982-5000

Addendum to Material Safety Data Sheet

REGULATORY STATUS

This Addendum Must Not Be

Detached from the MSDS

Identifies SARA 313 substance(s)

Any copying or redistribution of the MSDS

must include a copy of this addendum

(Chem.Key: BENSO)

Hazard Categories for SARA

Section 311/312 Reporting

Acute Chronic Fire Pressure Reactive

X

Product or Components
of Product:

BENEDICT SOLUTION

Sodium carbonate anhydrous (497-19-8) 7.8%
Cupric sulfate (7758-98-7) 1.4%
Sodium citrate (68-04-2) 13.5%
Water (7732-18-5) 77.3%

SARA EHS Sect. 302 RQ (lbs.)	TPQ (lbs.)	SARA Section 313 Chemicals Name List	Chemical Category	CERCLA Sec.103 RQ (lbs.)	RCRA Sec. 261.33
No	No	No	No	No	No
No	No	No	Copper compound	10	No
No	No	No	No	No	No
No	No	No	No	No	No

SARA Section 302 EHS RQ: Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.
SARA Section 302 EHS TPQ: Threshold Planning Quantity of Extremely Hazardous Substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.
SARA Section 313 Chemicals: Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.
CERCLA Sec. 103: Comprehensive Environmental Response, Compensation and Liability Act (Superfund). Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4
RCRA: Resource Conservation and Reclamation Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

Effective Date: 10-22-85

BENEDICT SOLUTION

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BENEDICT SOLUTION

PRODUCT IDENTIFICATION:

Synonyms: Sugar indicator

Formula CAS No.: Not applicable to mixtures.

Molecular Weight: Not applicable.

Chemical Formula: Not applicable. (ca. 75% water)

Hazardous Ingredients: CAS# 497-19-8 Sodium Carbonate

PRECAUTIONARY MEASURES

CAUTION! MAY CAUSE IRRITATION.

Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes.
SEE SECTION 5.

DOT Hazard Class: Not Regulated

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SECTION 1 Physical Data

Appearance: Clear blue liquid.

Odor: Characteristic odor.

Solubility: Miscible in water.

Boiling Point: No information found.

Melting Point: No information found.

Specific Gravity: No information found.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Evaporation Rate: No information found.

SECTION 2 Fire and Explosion Information

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 3 Reactivity Data

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, and sodium oxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Acids, bases, reducing or oxidizing agents, phosphorous pentoxide, zinc, lithium, calcium hydroxide, moisture.

SECTION 4 Leak/Spill Disposal Information

Ventilate area of leak or spill. Clean-up personnel may require protective clothing. Absorb liquid spills with a dry absorbent or dilute with large quantities of water. Handle as non-hazardous waste.

Ensure compliance with local, state and federal regulations.

Effective Date: 10-22-85

BENEDICT SOLUTION

AD

SECTION 5 Health Hazard Information

A. EXPOSURE / HEALTH EFFECTS

Inhalation:

Inhalation of mist may be irritating to respiratory tract. Symptoms associated with overexposure to sodium carbonate may include coughing, labored breathing and sore throat.

Ingestion:

Symptoms associated with ingestion of this solution are not expected to be severe. Ingestion of sodium carbonate may be corrosive to the gastro-intestinal tract where symptoms may include abdominal pain, diarrhea and collapse.

Skin Contact:

Solution may be an irritant to the skin.

Eye Contact:

Solution may be irritating to the eyes. Contact with sodium carbonate may cause conjunctival edema and corrosion.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

B. FIRST AID

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If large amounts were swallowed, give water to drink and get medical advice.

Skin Exposure:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Exposure:

Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

C. TOXICITY DATA (RTECS, 1986)

Sodium Carbonate: Irritation eye rabbit: 100 mg/24H

Severe Skin rabbit 500 mg/24H Moderate

SECTION 6 Occupational Control Measures

Airborne Exposure Limits:

None established.

Ventilation System:

A local exhaust system which captures the contaminant at its source is recommended to prevent dispersion of the contaminant into the workroom air.

Personal Respirators: (NIOSH Approved)

For conditions of use where exposure to the mist is apparent, a half mask chemical cartridge respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing from solutions is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 7 Storage and Special Information

Keep in a tightly closed container. Protect from

physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

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BENSO

DEAR CUSTOMER,

DATE: 01/25/93

ENCLOSED ARE THE MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR
ITEMS YOU RECENTLY PURCHASED FROM BAXTER SCIENTIFIC PRODUCTS.

PLEASE ASSURE THAT THEY ARE DISSEMINATED TO THE APPROPRIATE
DEPARTMENTS WITHIN YOUR ORGANIZATION.

DO NOT DISCARD -- DO NOT RETURN.

IF YOU HAVE ANY QUESTIONS ABOUT OUR MSDS PROGRAM, PLEASE CALL
THE MSDS CENTER AT (708) 578-4838. IT IS IMPERATIVE TO PROVIDE
US WITH THE PRODUCTS' CATALOG NUMBER AND MANUFACTURERS NAME IN
ORDER TO EXPEDITE YOUR REQUEST IN A TIMELY MANNER.

THESE MATERIAL SAFETY DATA SHEETS WERE PREPARED BY THE FIRM
IDENTIFIED ON THE MSDS. BAXTER MAKES NO REPRESENTATION WITH
RESPECT TO THE COMPLETENESS OR ACCURACY OF THEIR CONTENTS.

ATTN: HEALTH & SAFETY OFFICER
SCHOOLCRAFT COLLEGE

P.O. NUMBER 73541

18600 HAGGERTY ROAD
LIVONIA

MI48152

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** IN THESE MATERIAL SAFETY DATA SHEETS. **
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MSDS'S HAVE BEEN PROVIDED (ENCLOSED) FOR THE ITEMS LISTED BELOW:

VENDOR CODE	ITEM DESCRIPTION	BAXTER CAT NUMBER	FACTORY CAT NUMBER
NY	BENEDICT SOL 4LT	H028-	H02807