

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

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

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.

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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)

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%

Hazard Categories for SARA
Section 311/312 Reporting
Acute Chronic Fire Pressure Reactive

X

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