

**MATERIAL SAFETY DATA SHEET**

Chemical Name: Carbohydrate Chelate (sodium salt of sugar-acids)
Shipping Name: CEE*QUEST 70
CAS Number: 31138-65-5 and 8029-43-4
Hazardous Classification: None

ENCEE CHEMICAL SALES EMERGENCY CONTACTS DATE:10/16/95
P. O. BOX 39 252-633-5868
New Bern, NC 28560 252-637-4304

The information provided herein is compiled from internal reports and data from professional publications. IT IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EXPRESS OR IMPLIED. It is intended in evaluating the suitability and proper use of the material in manufacturing and the development and implementation of safety precautions and procedures.

HAZARDOUS INGREDIENTS

Non Hazardous, this product is a derivative of carbohydrates. It is used as a chelating agent in alkaline solutions.

PHYSICAL DATA

Appearance: dark brown pH: 8.0 to 10.5
Viscosity: about 75cps @ 20°C Odor: slight ammonia
Boiling Point: about 215F Melting Point: N/A
Vapor Density: same as water Freezing Point: N/A
Percent Volatile: 45% Vapor Pressure (mm Hg): N/A Evaporation Rate: unknown
Solubility In Water: infinite
Specific Gravity (Water = 1) : 1.292

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Auto Ignition Temperature: NA
Lower Explosion Limit: NA Upper Explosion Limit: NA
Extinguishing Media:
 Foam Alcohol Foam
 Dry Chemical Water Fog
 Carbon Dioxide Other ()
Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: None known, this product is a derivative of carbohydrates and will not burn unless completely dehydrated at elevated temperatures.



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HEALTH HAZARDS DATA

ROUTES OF ENTRY

SKIN CONTACT EYE CONTACT INHALATION INGESTION

EFFECTS OF OVER EXPOSURE

Inhalation: NA

Eye Contact: Burns or irritation

Skin Contact: Irritation

Ingestion: Treat the same as a mild alkali

FIRST AID PROCEDURES

Eyes: Wash with water, treat as a mild alkali, seek medical attention.

Skin: Avoid exposure to an open wound, wash with water.

Ingestion: Treat the same as a mild alkali, seek immediate medical attention.

Inhalation: NA

Listed As Carcinogen By

National Toxicology NA I.A.R.C. NA

Program: NA Monographs: NA OSHA: NA

REACTIVITY DATASTABILITY - Stable Unstable

Conditions To Avoid: NA

Materials To Avoid: Metals that react with alkalis, such as aluminum, magnesium, and other reactive metals.

Hazardous Decomposition Products: NA

Hazardous Polymerization Conditions For Polymerization

 May Occur Will Not Occur

Incompatibility (Materials to Avoid)

Water Other

NA NA

SPILL OR LEAK PROCEDURES

Precautions: This should be treated as a mild alkali.

Clean Up Procedure: Mop up or flush to drain, rinse affected area with water. In the event of a significant spill, notify local, State, or Federal environmental officials.

Waste Disposal Methods: This is biodegradable. In the event of a major spill, neutralization to a specific pH before disposal to the sewer is recommended. Notify environmental officials before discharge of any significant amount to the sewer.



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SPECIAL PROTECTION INFORMATION

Ventilation Type: NA
Respiratory Protection: NA
Protective Gloves: Yes
Eye Protection: Goggles
Other Protective Equipment: None required

STORAGE AND LABELING

Maximum Storage Temperature: Keep below 212F
Indoors: NA
Heated: NA
Refrigerated: NA
Outdoors: NA
Storage Notes: Use standard chemical handling procedures, and avoid excessive heat during storage.

Toxicity Data

Oral: None known.
Dermal: None known.
Skin Irritation: None known.
Eye Irritation: Same as a mild alkali.
Teratogenicity: None known.

Miscellaneous Information

This product should be handled with the normal care that should be used when handling chemicals.