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.

HEALTH HAZARD DATA

ROUTES OF ENTRY

SKIN CONTACT _X_ EYE CONTACT _X_

INHALATION _NA INGESTION _X_

EFFECTS OF OVER EXPOSURE

Inhalation: NA

Eye Contact: Burns or irritation

Skin Contact: Irritation

Ingestion: Treat the same as ammonium hydroxide

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 sodium hydroxide, seek immediate medical attention.

Inhalation: NA

Listed As Carcinogen By

National Toxicology Program: NA I.A.R.C. Monographs: NA OSHA: NA

REACTIVITY DATA

STABILITY - _X__ Stable ____ Unstable

Conditions To Avoid: NA

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

Hazardous Decomposition Products: NA

Hazardous Polymerization Conditions For Polymerization

___ May Occur

_X_ 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.

MATERIAL SAFETY DATA SHEET

Chemical Name: Sodium Glucoheptonate
Shipping Name: CEE*Quest 50
CAS Number: 31138-65-5
Hazardous Classification: None

ENCEE CHEMICAL SALES
P.O. BOX 39
New Bern, NC 28563

EMERGENCY CONTACTS
252-633-5868
252-637-4304

DATE:10/16/95

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 sugars. It is used as a chelating agent in alkaline solutions.

PHYSICAL DATA

Appearance: dark brown
Viscosity: about 25cps
Boiling Point: about 215F
Vapor Density: same as water
Percent Volatile: 50%
Evaporation Rate: unknown
Specific Gravity (Water = 1) : 1.2725

pH: 9.0 to 10.5
Odor: slight ammonia
Melting Point: N/A
Freezing Point: N/A
Vapor Pressure (mm Hg): N/A
Solubility In Water: infinite

FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Auto Ignition Temperature: NA
Lower Explosion Limit: NA
Upper Explosion Limit: NA
Extinguishing Media:

_X_ Foam
_X_ Dry Chemical
_X_ Carbon Dioxide
___ Alcohol Foam
_X_ Water Fog
___ Other ( )

Special Fire Fighting Procedures: None known

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