

HEC

MATERIAL SAFETY DATA SHEET

MSDS: WS 0030
DATE: 8/21/86
PAGE: 1 of 2

HERCULES INCORPORATED
WILMINGTON, DELAWARE, 19894
PHONE NUMBER: 302-594-5000 (All Hours)

I. PRODUCT IDENTIFICATION

Chemical Name & Synonyms: Hydroxyethyl cellulose, HEC
Chemical Family: Cellulose ether
Formula: --
Trade Name: NATROSOL (All degrees of substitution and viscosities)

Cas No.: 9004-62-0
Cas Name: Cellulose, 2-Hydroxyethyl ether
Molecular Weight: --

II. HAZARDOUS INGREDIENTS

Material % TLV-TWA VALUES ADOPTED BY ACGIH 1983-84

Note: As Hercules interprets the U.S. Occupational Safety and Health Act of 1970, this product should not be considered a hazardous material.

III. PHYSICAL DATA

Boiling Point: NA
Vapor Pressure: NA
Vapor Density: NA (Air=1)
Solubility in Water 25°C: Complete
pH (2% solution): 6.5 to 8.5
Appearance and Odor: White to light tan powder; odorless.

Freezing Point: NA
Bulk Density: 550-750 kg/m³ Typical (As Shipped) (34-47 lb/ft³)
Moisture Content: 5.0% maximum (% By Weight) (as packed)
Evaporation Rate: NA (Butyl Acetate=1)

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point: NA
Autoignition Temperature: Not determined
Flammable Limits In Air, % by Volume: NA
Extinguishing Media: Water spray, dry chemical, foam, or carbon dioxide
Special Fire-Fighting Procedures: None
Unusual Fire and Explosion Hazards: Flammable dust when finely divided and suspended in air.

Notes: NA = Not Applicable.

*Registered Trademark

The information contained herein is furnished without warranty of any kind. Product users should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees.

V. HEALTH HAZARD DATA

Threshold Limit Value: Not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by the American Conference of Governmental Industrial Hygienists (ACGIH), Hercules Incorporated suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

Effects of Overexposure: None known

Emergency & First Aid Procedures: None required

VI. REACTIVITY DATA

Stable. Conditions to Avoid: None

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: None

Hazardous Polymerization Will Not Occur.

VII. SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled: Mechanical clean-up for use or disposal.

Waste Disposal Method: Incineration or landfill. Dispose of in accordance with local, state, and Federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Nuisance dust respirator approved by NIOSH/MSHA in excessive air concentrations.

<u>Ventilation</u>	<u>Local Exhaust:</u> --	<u>Special:</u> --
	<u>Mechanical:</u> --	<u>Other:</u> Adequate to control
	(General)	nuisance particulates

Protective Gloves: --

Other Protective Equipment: --

Eye Protection: Safety glasses

IX. SPECIAL PRECAUTIONS

Precautionary Labeling:

**CAUTION! FLAMMABLE DUST WHEN FINELY DIVIDED AND SUSPENDED IN AIR.
SURFACES SUBJECT TO SPILLS OR DUSTING WITH THIS PRODUCT CAN BECOME
SLIPPERY WHEN WET.**

Keep away from heat, sparks, and open flame.

Use with adequate ventilation.

Keep floors clean.

Other Handling and Storage Conditions: Surfaces subject to spills or dusting with this product can become slippery when wet. To protect product quality, store in sealed containers in a dry place away from heat and sunlight.