

BERMOCOLL

Akzo Nobel Cellulosic Specialties

MATERIAL SAFETY DATA SHEET (MSDS)

Date Printed: January 1, 2003
BERMOCOLL (all Grades)

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SECTION 1. PRODUCT INFORMATION

PRODUCT NAME
Bermocoll
CHEMICAL NAME
Ethyl hydroxyethyl cellulose
SYNONYM
EHEC
CHEMICAL FAMILY
Nonionic Cellulose ether
CAS #
9004-58-4
PRODUCT USE
Thickening agent, rheology control

SECTION 2. MANUFACTURERS INFORMATION

MANUFACTURER'S NAME
Akzo Nobel Cellulosic Specialties
EMERGENCY CONTACT
JIM REID
ADDRESS
99 Hawley Lane
Stratford, CT 06614
EMERGENCY TELEPHONE #1
203.378.0500 or 203.650.4820
COUNTRY
USA
EMERGENCY TELEPHONE #2
CHEMTREC 1-800-424-9300
ISSUE DATE
January 1, 2003

SECTION 3. INGREDIENTS/REGULATORY INFORMATION

Substance Description	Percent	CAS#
Ethyl hydroxyethyl cellulose		9004-58-4

EXPOSURE LIMITS/REGULATORY INFORMATION
(IN MG/M3)

SUBSTANCE DESCRIPTION	REG. AGCY	PEL	TLV	TWA	STEL	CEIL
Ethyl hydroxyethyl Cellulose	OSHA	N/D	N/D	N/D	N/D	N/D
	ACGIH	N/D	N/D	N/D	N/D	N/D
	NIOSH	N/D	N/D	N/D	N/D	N/D
	SUPPLIER	N/D	N/D	N/D	N/D	N/D

TSCA and DSL listing not required due to polymer exempt status.

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS
CEIL Ceiling Exposure Limit
PEL Permissible Exposure Limit
STEL Short Term Exposure Limit
TLV Threshold Limit Value
TWA Time Weighted Average

HMIS CODE	
0	Health
1	Flammability
0	Reactivity
E	Personal Protection

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SECTION 4. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDS

May be irritating to the skin, eyes and nose. Organic dust above a certain concentration in the air may be an explosion hazard.

WARNING STATEMENT

As with any organic material, Bermocoll cellulose ethers should not be stored next to peroxides or other oxidizing agents.

SECTION 5. FIRST AID MEASURES

EYES

Flush with water or eye wash

INGESTION

Drink water or milk. Contact a physician if larger quantity has been swallowed.

SKIN

Flush with water

INHALATION

Fresh air and rest

OTHER INSTRUCTIONS

Note: Merck index lists EHEC as a laxative

SECTION 6. FIRE FIGHTING MEASURES

Ignition Temperature °F
Greater Than 302°

Flash Point °F (Method)
Greater Than 302°

Flammable Limits %
Lower 0.6 (200 Mesh)
Upper 0.8 (200 Mesh)

Products Evolved When Subjected to Heat or Combustion
Normal Hydrocarbon Combustion Products

Extinguishing Agents
Foams, Powders, Water (i.e., convention means)

Unusual or Explosive Hazards
Organic dust above a certain concentration in the air may be an explosion hazard.

SECTION 7. ACCIDENTAL RELEASE MEASURES

CLEAN-UP

Sweep and contain any spilled powder immediately, as it will become very slippery if it gets wet. Dispose of in accordance to local regulations.

SECTION 8. HANDLING/STORAGE/TRANSPORTATION

HANDLING

Dust mask and safety goggles recommend as fine powder can become airborne and may be irritating to the eyes and nose. Any spilled powder should be swept up immediately, as it will become slippery when wet.

STORAGE

Keep bags in a dry place and prevent from tearing as product will pick-up ambient moisture if exposed to the atmosphere. Do not store with oxidizing agents.

GENERAL COMMENTS

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Bags should not be opened until ready for use. Partial bags should be resealed to prevent absorption of moisture from the air, which will cause the product to cake and reduce the product quality.

SECTION 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT (TYPE):

Eyes:	As with any nuisance particles, care should be taken to prevent contact with the surfaces of the eyes (e.g. goggles, safety glasses).
Skin:	Irritation has been noted with some individuals. Therefore, it is recommended that contact with exposed skin be prevented via clothing, gloves, etc.
Inhalation:	If ventilation is insufficient, suitable respiratory protection must be provided. Wear mask supplied with dust filter P2 (for fine dust).
Ventilation: Permissible Concentrations:	Mechanical ventilation or local exhaust may be required. Air - 4 mg/m ³

SECTION 10. CHEMICAL AND PHYSICAL PROPERTIES

Boiling Point (°F) NA	Vapor Pressure NA (mmHg)
Specific Gravity 1.33 (H ₂ O=1)	Vapor Density NA
Appearance and Odor White powder/slight characteristic odor	pH of undiluted product Neutral to slightly acidic
Solubility Soluble in H ₂ O and lower alcohols	Percent Volatile by Volume NA
Evaporation NA	Viscosity NA
Other	Hazardous Polymerization's Do Not Occur

SECTION 11. STABILITY AND REACTIVITY

STABILITY

This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and has a shelf life of several years in unopened bags. It is not sensitive to physical impact.

INCOMPATIBILITIES

None known.

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SECTION 12. TOXICOLOGICAL INFORMATION

PRIMARY ROUTE OF EXPOSURE

Skin, eye contact and inhalation are the primary routes of exposure to this product.

Effects of Exposure:

Eye Contact - Acute	Tearing, Reddening
Skin Contact - Acute	Irritation, itching, reddening
Respiratory System - Acute	Irritation
Chronic - Acute	ND
Other	None

Sensitization Properties

Skin: No
Respiratory: No

Median Lethal Dose (LD₅₀LC₅₀) (Species)

Oral	LD ₅₀ RAT > 2 gm
Inhalation	ND
Dermal	Mild skin Irritation (Rabbit) PIII
Other	None

Irritation Index, Estimation of Irritation (Species)

Skin	Not sensitizing according to Magnusson - Klingman
Eyes	ND
Symptoms of Exposure	Reddening, Itching

SECTION 13. ECOLOGICAL INFORMATION

ECOLOGICAL TOXICITY

Experiments yielded the following environmental data:
LC50 (96hr) fish >100mg/l
EC 50 (48 hours) Daphnia > 100 mg/l

OTHER ECOLOGICAL INFORMATION

Other ecological information on this product is not known.

CHEMICAL FATE INFORMATION

This product is not readily biodegradable

OTHER REGULATORY INFORMATION

No other regulatory information is available on this product.

SECTION 14. TRANSPORT INFORMATION

REQUIRED LABELS

None

SHIPPING DESCRIPTION

Compounds, Paint Thickening in Double Bags

HAZARDOUS CLASS (DOT)

None

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SECTION 15. OTHER INFORMATION

KEY TO ABBREVIATIONS:

EQ = Equal

AP = Approximately

LT = Less Than

NA = Not Applicable

GT = Greater Than

ND = No Data Available

To determine applicability or effect of any law or regulation with respect to this product, user should consult his legal advisor or the appropriate government agency. Akzo Nobel Surface Chemistry does not undertake to furnish advice on such matters.

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