

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

BENECEL® E4M

1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Identification of the substance or preparation

Product	BENECEL® E4M
Chemical description	Methylhydroxypropylcellulose
CASRN	9004-65-3
Use	As rheology modifier in Food
Company/undertaking	Hercules Doel B.V.B.A. Aqualon division, Geslecht 2, B-9130 Doel (Beveren), Belgium
Person responsible for the Safety Data Sheet	RegulatoryAffairsEmea@Herc.com
Emergency telephone	Hercules International Ltd. LLC, The Netherlands Safety, Health, Environment and Regulatory Affairs Department Tel. +31 70 413 42 18, Fax. +31 70 390 27 15

2. HAZARDS IDENTIFICATION

Caution	Wet floors on which this product is spilt may become very slippery. This powder when dispersed in air represents an explosion hazard.
Short term exposure	No permanent effects on humans known from discontinuous short-term exposure when used as directed.
Long term exposure	No permanent effects on humans known from discontinuous long-term exposure when used as directed.
Environmental hazards	No long-term ecological effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description	Methylhydroxypropylcellulose
Hazardous component(s)	None present in this product.

4. FIRST AID MEASURES

Eye contact	Irrigate with water.
Skin contact	Wash off immediately with plenty of soap and water.
Ingestion	Drink large quantities of water. Rinse out mouth with water.
Inhalation	Remove to fresh air. Treat any irritation symptomatically. If necessary consult a doctor.

5. FIRE-FIGHTING MEASURES

General	Keep away from heat, sparks and flames. Avoid excess dust in the atmosphere since this is an explosion hazard in the presence of electrical sparks and static discharges.
Extinguishing media	Fight the fire using water spray, sand, dry powder, carbon dioxide or foam.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

BENECEL® E4M

Special protective equipment for fire fighters Self contained breathing apparatus. (CEN : EN 137)
Protective clothing (CEN : EN 469)
Protective gloves (CEN : EN 659)
Helmet (CEN : EN 443)

Special exposure hazards Carbon monoxide, carbon dioxide, steam and smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wet floors on which this product is spilt may become very slippery. This powder when dispersed in air represents an explosion hazard.

Methods for cleaning up Sweep up this product for use or place in a container for disposal. Dispose of in a safe manner, in accordance with local regulations.

7. HANDLING AND STORAGE

Handling Handle in a well ventilated area. The fine particles and powder should be regarded as an inert, nuisance dust with a threshold limit value of 10 mg/m³ for total dust and of 3 mg/m³ for the respirable portion. Avoid static build-up when emptying big bags.

Storage Product should be stored, under cover, in a clean well ventilated area. Maintain a clean area by removing dust. Keep away from heat, sparks and other sources of ignition. Store in a dry place.

Storage materials to avoid None. The packaging material should have reasonable moisture and air barrier properties.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

British WEL (EH40UK) value General dust (inhalable) : WEL 10 mg/m³ (8 hr)
General dust (respirable): WEL 4 mg/m³ (8hr)

Recommended engineering controls Handle in a well ventilated area. Normal industrial hygiene measures should be sufficient.

Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: P2 (CEN : EN 140; EN 143; EN 149)

Hand protection Protective gloves (Plastic, impervious). (CEN : EN 420)

Eye protection Airtight chemical goggles. (CEN : EN 166)

Skin protection No special requirement.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance Free flowing powder or granulate

Colour Light cream to white

Odour Odourless

Important health, safety and environmental info

pH 5.0 - 8.0 (2% solution)

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

BENECEL® E4M

Important health, safety and environmental info

Bulk density	200 - 500 (kg/m ³)
Solubility in water	Completely soluble
Solubility, fat (in solvent specified)	Insoluble in most polar solvents.
Viscosity	2700 - 5040 mPa.s (2% solution)

Explosion data

Burning class	5
Glowing temperature	>450 °C
Ignition temperature	400 °C
Auto-ignition temperature	170 °C
Minimum ignition energy (MIE)	>10 - 1000 mJ
Lower Explosion Limit (LEL)	30 g/m ³
Max expl. pressure (Pmax)	10 bar
Dust explosion constant (Kst)	>200 - 300 bar.m/s
Dust explosion classification	St 2

10. STABILITY AND REACTIVITY

Stability	This product is chemically stable.
Hazardous decomposition products	No additional hazardous chemicals are known to be formed when used as directed in this application.

11. TOXICOLOGICAL INFORMATION

Mammalian test data

Acute oral	This product is not metabolized in the body. No adverse effects known as a result of ingestion.
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Exposure hazard

Inhalation	Dust may cause irritation to upper respiratory tract.
Skin contact	No specific symptoms known.
Eye contact	This product should not be regarded as an eye irritant.
Ingestion	No specific symptoms known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute fish toxicity	LC50 is > 100 mg/l.
Acute bacterial inhibition	No information available.

Persistence and degradability

BOD 5	0 - 100 mgO ₂ /g.
Biodegradation	This product does not represent a long term ecological problem.

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

BENECEL® E4M

Other information

WGK class (Germany) 1

13. DISPOSAL CONSIDERATIONS

Disposal of product Waste incineration or special disposal with the approval of the responsible local authority.
EWC (European Waste Code) recommendation : 07 07 99

14. TRANSPORT INFORMATION

General Not classified as dangerous goods for transport according ADR, IMDG or IATA.

15. REGULATORY INFORMATION

Symbol(s) None.
Risk phrase(s) No Risk phrases assigned.
Safety phrase(s) No Safety phrases assigned.

16. OTHER INFORMATION

Nature of revision Initial issue

Further information about this product may be obtained from: Hercules International Ltd. LLC
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