CMC FOOD GRADE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product label name Carboxymethylcellulose

Akzo Nobel Surface Chemistry by Supplier

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Emergency telephone + 31 570679211 (Fax. + 31 570679801)

Akzo Nobel Chemicals-Deventer-NL

Intended use Food, pharmaceutical and health applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Information on hazardous ingredients

Chemical description Carboxymethylcellulose

Composition / information on ingredients

CAS-number Number % w/w Chemical name 99.5-100 9004-32-4

Sodium carboxymethyl cellulose 0.0-0.25 7647-14-5 Sodium chloride

0.0-0.40 2836-32-0 Sodium hydroxyacetate 3 Number EC-number Annex-1 number Symbol(s)

Risk-phrase(s) none

231-598-3 none none none

3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive.

4. FIRST AID MEASURES

Symptoms and effects No typical symptoms and effects known.

First aid

General In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation Move to fresh air. If symptoms persist, seek medical advice.

Skin Wash immediately with soap and water.

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to Eve

ensure thorough rinsing. Seek medical advice if irritation develops.

Rinse mouth, give water to drink. Ingestion No specific recommendations. Advice to physician

5. FIRE-FIGHTING MEASURES

Extinguishing media water, Carbon dioxide, foam, powder.

Unsuitable extinguishing media none known.

Special exposure hazards Dust/air mixtures may ignite violently upon exposure to sparks or sources of ignition.

Hazardous decomposition/ CO, CO2, hydrocarbons.

combustion products

Protective equipment In case of insufficient ventilation wear adequate respiratory protection. Other information Wet floors on which this product is spilt may become very slippery.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions No specific recommendations.

Environmental precautions Collect as much as possible in a clean container for (preferable) reuse or disposal.

Preferably dry: Sweep up and put it into a container for disposal. Methods for cleaning up Wet floors on which this product is spilt may become very slippery.

7. HANDLING AND STORAGE

Handling Handle in well ventilated areas. Avoid dust generation.

Fire and explosion prevention No sparking tools should be used (Dust/air mixtures may ignite violently upon exposure

to sparks or sources of ignition).

Storage requirements Keep only in the original container. Keep container dry (hygroscopic).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Provide adequate ventilation.

Exposure limits No exposure limits have been established for this material.

Personal protection

Respiratory In case of dust formation use dust mask.

Hand not relevant Eve not relevant Skin and body not relevant

9. PHYSICAL AND CHEMICAL **PROPERTIES**

Appearance free flowing powder

Colour off white Odour odourless Boiling point/range not applicable Melting point/range not applicable Flash point not applicable **Flammability** not applicable > 280 °C **Autoignition temperature**

dust explosion hazard (Class ST1) **Explosive properties**

Explosion limits not determined **Oxidizing properties** not applicable Vapour pressure not applicable **Density** 1500 kg/m³ **Bulk density** 300-900 kg/m³ Solubility in water Soluble (20 °C) Solubility in other solvents

Insoluble pH value

6.0 - 8.5 (1% solution)

Partition coefficient not determined

n-octanol/water

Relative vapour density (air=1) not applicable

10-12.000 mPa.s (1% solution, 25 °C Brookfield LV; 30rpm)

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7). Stability

Conditions to avoid Avoid dust generation.

Materials to avoid not relevant

Hazardous decomposition No typical hazardous decomposition products known.

products

11. TOXICOLOGICAL INFORMATION

Name Carboxymethylcellulose

Acute toxicity

Oral LD50 rat: 15000 - 27000 mg/kg (Lit.)

Sensitization Not sensitizing (Human experience) (Lit.)

Genotoxicity Ames test: Not mutagenic (Lit.) Other toxicological Carcinogenicity: not carcinogenic (Lit.)

Not teratogenic (Lit.). information Not embryotoxic (Lit.)

12. ECOLOGICAL INFORMATION

Name Carboxymethylcellulose

Fate

Degradation Biotic SCAS test: Inherently biodegradable (Akzo Nobel E-file)

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13. DISP	OSAL (CONSID	ERATIONS
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Product According to local regulations (most probably controlled incineration)

According to local regulations. Contaminated packaging

14. TRANSPORT INFORMATION

Land transport (ADR/RID)

ADR class not restricted **ADR Classification Code** not relevant / not

relevant

RID class not restricted ADR/RID packing group

Hazard Identification No. not relevant Substance Identification No. not relevant

not relevant UN number none **TREM-Card**

not relevant **Proper Shipping Name**

Sea transport (IMDG-code/ IMO)

IMO/IMDG code not restricted Class not restricted

Packing group not relevant **UN** number none

not relevant **Subsidiary Risk** not relevant **EMS**

Marine pollutant nο

Proper Shipping Name not relevant

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR **UN** number none

not restricted not relevant Class **Packing group**

not relevant **Proper Shipping Name**

15. REGULATORY INFORMATION

Chemical description Carboxymethylcellulose

Labelling according to EC directives

EC-number See section 2

Symbol(s) none

R(isk) phrase(s) none S(afety) phrase(s) none Wassergefährdungsklasse 1 (KBwS)

(WGK)

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

R-phrase information

Chemical name Risk-phrase(s)

Sodium carboxymethyl cellulose NONE none Sodium chloride none NONE Sodium hydroxyacetate none NONE

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Dr. P. Thomas Composed by

J. Poort

Changes were made in

section

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