SAFETY DATA SHEET

legal basis:
COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to
Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

Pollocel F-400

Creation date	29th May 2024		
Revision date		Version	1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier — Pollocel F-400

Substance / mixture	substance
Chemical name	Sodium carboxymethylcellulose
CAS number	9004-32-4
EC (EINECS) number	618-378-6
Registration number	polimer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Substance's intended use

Food additive.

Substance uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	CMC S.A.
Address	ul. Weteranów 12, Warszawa, 03-172 Poland
Phone	+48 515 197 781
E-mail	lab@cmcsa.pl

Competent person responsible for the safety data sheet

Name	CMC S.A.
E-mail	lab@cmcsa.pl

1.4. Emergency telephone number

+48 515 197 781 (8-16)
European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is not classified as dangerous according to Regulation (EC) No 1272/2008.

2.2. Label elements

none

2.3. Other hazards

Product is combustible, but not flammable. The endocrine-disrupting properties of the substance have not been studied. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
CAS: 9004-32-4 EC: 618-378-6 Registration number: polimer	Sodium carboxymethylcellulose	99,5-<100	not classified as dangerous	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Possible exposure to dust or fine particles. Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

Possible eye contamination during exposure to fine particles or dust. Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Do not give milk, fats, alcohol. Make sure that injured person can breathe.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Dust can irritate the nose, throat, mucous membranes, and respiratory tract through mechanical abrasion, causing coughing, sneezing, chest pain, shortness of breath, mucous membrane inflammation, and fever.

If on skin

Direct contact can cause irritation due to mechanical abrasion.

If in eyes

Direct contact with dust can cause irritation due to mechanical abrasion.

If swallowed

Not expected.

4.3. Indication of any immediate medical attention and special treatment needed

The physician, after assessing the condition of the injured person, makes a decision regarding the course of action.

More information

Other relevant information is not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product is combustible, but not flammable. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

Dust accumulating in enclosed or unventilated spaces may form explosive mixtures with air. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Minimize the generation of dust. Do not inhale dust. Follow the instructions in the Sections 7 and 8. Forms slippery coatings with water.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. Avoid dust formation. Floor with the spilled, dissolved product are very slippery. After removal of the product, wash the contaminated site with plenty of water. Cover the spilled, dissolved material with an appropriate (non-flammable) absorbent material (such as sand, silica gel, clay, or other suitable absorbent materials), collect in well-closed containers, and dispose of in accordance with Section 13.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. It is recommended to control dust emissions. Avoid creating dust.

7.2. Conditions for safe storage, including any incompatibilities

After using, packaging must be tightly closed again to prevent uncontrolled release. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. For very fine and dry dusts (particle size below 63 µm, moisture content below 3%), there is a potential explosion risk. This risk occurs only when both conditions are met simultaneously. Under normal operating conditions, the moisture content of dust deposits typically remains above 8%.

7.3. Specific end use(s)

Apart from the already mentioned guidelines, it is not necessary to follow any specific recommendations for the use of this product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Product contains no substances for which exposure limits have been specified for occupational environments.

Other information of limit values

J.L. 2021.325 (Poland)
Dusts unclassified due to toxicity - inhalable fraction.
NDS: 10 mg/m³

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Ensure proper ventilation or an exhaust system in areas with high dust concentrations.

Eye/face protection

In case of eye contamination risk, protective goggles or face shields (depending on the type of work being performed) must be worn, in accordance with EN 166.

Skin protection

When handling in long-term or repeatedly, use protective gloves. Recommended material: butyl rubber (IIR). Use barrier creams for skin protection, they should, however, not be applied once exposure has occurred. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective work- and footwear, according to EN 344.

Respiratory protection

Under normal conditions of use, it is not required. In case of dust or when the maximum allowable concentration is exceeded, it will be necessary to use respiratory protection (e.g. a mask with a FFP2 filter).

Thermal hazard

Product is combustible, but not flammable. Dust explosions can occur when dust mixes with air and is ignited.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	solid
Colour	yellow
color intensity	light
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	flammable, but not readily flammable
Lower and upper explosion limit	not applicable
Flash point	not determined
Auto-ignition temperature	170 °C
Decomposition temperature	not determined
pH	6-8.5 (2% solution at 20 °C)
Kinematic viscosity	not applicable

Solubility in water	soluble (forms sticky solutions)
Solubility in bases	soluble (forms sticky solutions)
Partition coefficient n-octanol/water (log value)	not determined
Vapour pressure	not applicable
Density and/or relative density	
Density	<1 g/cm³ at 20 °C
Relative vapour density	not applicable
Particle characteristics	not determined
Form	solid: particulate/powder

9.2. Other information

Exothermic decomposition energy	>1J
Formation of explosible dust/air mixtures	Dusts can form explosive mixtures with air.
Bulk density	0.55-1 g/cm³
Combustion temperature	360 °C

Dust deflagration index (Kst): < 200 bar*m/s

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is combustible, but not flammable. When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

During processing, dust may form creating explosive mixtures with air.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of dust may lead to adverse health effects.

Acute toxicity

Based on available data the classification criteria are not met.

Sodium carboxymethylcellulose					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	27000 mg/kg		Rat (Rattus norvegicus)	
Inhalation (dust/mist)	LC_{50}	>5800 mg/l	4 hours	Rat (Rattus norvegicus)	
Dermal	LD_{50}	>2000 mg/kg		Rabbit	

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

11.2. Information on other hazards
The endocrine-disrupting properties of the substance have not been studied.

SECTION 12: Ecological information

12.1. Toxicity
Based on available data the classification criteria are not met.

Acute toxicity

Sodium carboxymethylcellulose						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC_0	OECD 203	>10000 mg/l		Fish (Brachydanio rerio)		
LC_0	OECD 203	>5000 mg/l		Fish (Leuciscus idus)		
LC_{50}	OECD 203	>21000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
EC_0	OECD 202	>1000 mg/l	48 hours	Daphnia (Daphnia magna)		
EC_0		>1000 mg/l		Bacteria	Activated sludge	DIN 38412 T.27

12.2. Persistence and degradability
There are no ecotoxicological data available for the product.

Biodegradability

Sodium carboxymethylcellulose						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301B	30 %	28 days		Hardly biodegradable	Degradacja DOC

12.3. Bioaccumulative potential
No data available for the substance.

12.4. Mobility in soil
The product is soluble and mobile in water and soil.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

Properties of the substance disrupting the function of the hormonal system in the aquatic environment are not known.

12.7. Other adverse effects

Unknown.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Do not dispose unused product in drainage systems. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling. Avoid dust formation.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

Product is not an environmental hazard according to the criteria of the UN Model Regulations.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable - not intended for bulk transportation.

Additional information

Avoid dust emissions during transportation by using the manufacturer's packaging.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Chemical safety assessment is not required for substances that are not classified as hazardous.

SECTION 16: Other information

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_o	Concentration of a substance when it is affected 0% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_o	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

Uses advised against: Any type of use not listed in this Safety Data Sheet.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available.

The changes (which information has been added, deleted or modified)

Version 1.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.