# Chemical Safety Data Sheet MSDS / SDS

# Sodium carboxymethyl cellulose

Revision Date:2025-01-25 Revision Number:1

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

## **Product identifier**

Product name	: Sodium carboxymethyl cellulose				
CBnumber	: CB5209844				
CAS	: 9004-32-4				
EINECS Number	: 618-378-6				
Synonyms	: Carboxymethyl cellulose,CMC-NA				
Relevant identified uses of the substance or mixture and uses advised against					
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.				
Uses advised against	: none				
Company Identification					
Company	: Chemicalbook				
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing				
Telephone	: 400-158-6606				

# SECTION 2: Hazards identification

# GHS Label elements, including precautionary statements

Signal word	No signal word
Hazard statement(s)	
none	
Prevention	
none	
Response	
none	
Storage	
none	
Disposal	
none	

# SECTION 3: Composition/information on ingredients

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### Substance

Product name	: Sodium carboxymethyl cellulose
Synonyms	: Carboxymethyl cellulose,CMC-NA
CAS	: 9004-32-4
EC number	: 618-378-6
MF	: C6H7O2(OH)2CH2COONa

# SECTION 4: First aid measures

### Description of first aid measures

#### lf inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

### **Extinguishing media**

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special hazards arising from the substance or mixture

Nature of decomposition products not known. Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire. Risk of dust explosion.

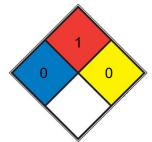
### Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

### **Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **NFPA 704**



HEALTH	0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials
FIRE	1	Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)
REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)
SPEC. HAZ.		

# SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### **Reference to other sections**

For disposal see section 13.

# SECTION 7: Handling and storage

### Precautions for safe handling

For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

### Storage conditions

Tightly closed. Dry.

# Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

### control parameter

### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

### **Exposure controls**

### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other

accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the

instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

# SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Appearance	light yellow solid
Odour	odorless
Odour Threshold	No data available
рН	at 10 g/l at 20 °C neutral
Melting point/freezing point	Melting point/range: 274 °C
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available

Vapour pressure	No data available	
Vapour density	No data available	
Relative density	1,59	
Water solubility	soluble	
Partition coefficient: n-octanol/water	No data available	
Autoignition temperature	No data available	
Decomposition temperature	>250 °C -	
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	
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### Other safety information

No data available

# SECTION 10: Stability and reactivity

### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

#### Possibility of hazardous reactions

Violent reactions possible with: strong oxidising agents

### Conditions to avoid

no information available

### Incompatible materials

No data available

### Hazardous decomposition products

In the event of fire: see section 5

# SECTION 11: Toxicological information

### Information on toxicological effects

### Acute toxicity

LD50 Oral - Rat - > 2.000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - 4 h - > 5,8 mg/l

LD50 Dermal - Rabbit - > 2.000 mg/kg Skin corrosion/irritation Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Respiratory or skin sensitization Germ cell mutagenicity No data available Carcinogenicity No data available **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Toxicity LD50 oral in rabbit: > 27gm/kg

# SECTION 12: Ecological information

### Toxicity

### Toxicity to fish

LC50 - Danio rerio (zebra fish) - > 500 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to bacteria

### Persistence and degradability

Biodegradability

(OECD Test Guideline 302B)

### **Bioaccumulative potential**

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

No data available

# SECTION 13: Disposal considerations

#### Waste treatment methods

#### Incompatibilities

Carboxymethylcellulose sodium is incompatible with strongly acidic solutions and with the soluble salts of iron and some other metals, such as aluminum, mercury, and zinc. It is also incompatible with xanthan gum. Precipitation may occur at pH < 2, and also when it is mixed with ethanol (95%). Carboxymethylcellulose sodium forms complex coacervates with gelatin and pectin.

### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

# **SECTION 14: Transport information**

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UN number ADR/RID:IMDG:IATA:ADR/RID:IMDG:IATA: IATA:

- - - - - -

IATA:

### UN number

Adr/Rid: 3145 IMDG: 3145 IATA: 3145 Adr/Rid: 1987 IMDG: 1987 IATA: 1987 Adr/Rid: 3 IMDG: 3 IATA: 3 Adr/Rid: - IMDG: - IATA: -Adr/Rid: 1987 IMDG: 1987 IATA: 1987 Adr/Rid: 1993 IMDG: 1993 IATA: 1993 Adr/Rid: - IMDG: - IATA: -Adr/Rid: 1987 IMDG: 1987 IATA: 1987 Adr/Rid: 4.3 (4.2) IMDG: 4.3 (4.2) IATA: 4.3 (4.2) Adr/Rid: - IMDG: - IATA: -

### Packaging group

ADR/RID: - IMDG: - IATA: -ADR/RID: II IMDG: II IATA: II ADR/RID: ALCOHOLS, N.O.S. (2-Methylbut-3-en-2-ol) IMDG: ALCOHOLS, N.O.S. (2-Methylbut-3-en-2-ol) IATA: Alcohols, n.o.s. (2-Methylbut-3-en-2-ol) ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods ADR/RID: FLAMMABLE LIQUID, N.O.S. (5-Decyne) IMDG: FLAMMABLE LIQUID, N.O.S. (5-Decyne) IATA: Flammable liquid, n.o.s. (5-Decyne) ADR/RID: ALCOHOLS, N.O.S. (cis-Pent-2-ene-1-ol) IMDG: ALCOHOLS, N.O.S. (cis-Pent-2-ene-1-ol) IATA: Alcohols, n.o.s. (cis-Pent-2-ene-1ol)

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods ADR/RID: III IMDG: III IATA: III ADR/RID: ALCOHOLS, N.O.S. (Pent-4-en-2-ol) IMDG: ALCOHOLS, N.O.S. (Pent-4-en-2-ol) IATA: Alcohols, n.o.s. (Pent-4-en-2-ol) ADR/RID: ALKYLPHENOLS, LIQUID, N.O.S. IMDG: ALKYLPHENOLS, LIQUID, N.O.S. IATA: Alkylphenols, liquid, n.o.s.

### Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: - IMDG: - IATA: -ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: - IMDG: - IATA: -ADR/RID: 3 IMDG: 3 IATA: 3 ADR/RID: 10 IMDG Marine pollutant: yes IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

### Special precautions for user

No data available No data available ADR/RID: II IMDG: II IATA: II ADR/RID: - IMDG: - IATA: -ADR/RID: III IMDG: III IATA: III ADR/RID: - IMDG: - IATA: -No data available ADR/RID: III IMDG: III IATA: III ADR/RID: III IMDG: III IATA: III

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no ADR/RID: no IMDG Marine pollutant: no IATA: no

### Special precautions for user

No data available No data available

# SECTION 15: Regulatory information

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

Regulations on the Safety Management of Hazardous Chemicals China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/ Measures for Environmental Management of New Chemical Substances Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Listed. website: https://www.mee.gov.cn/ Korea Existing Chemicals List (KECL):Listed. website: http://ncis.nier.go.kr New Zealand Inventory of Chemicals (NZIoC):Listed. website: https://www.epa.govt.nz/ Philippines Inventory of Chemicals and Chemical Substances (PICCS):Listed. website: https://emb.gov.ph/ United States Toxic Substances Control Act (TSCA) Inventory:Listed. website: https://www.epa.gov/ Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/ EC Inventory:Not Listed. European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road CAS: Chemical Abstracts Service EC50: Effective Concentration 50% IATA: International Air Transportation Association IMDG: International Maritime Dangerous Goods LC50: Lethal Concentration 50% LD50: Lethal Dose 50% RID: Regulation concerning the International Carriage of Dangerous Goods by Rail STEL: Short term exposure limit

TWA: Time Weighted Average

### References

- [1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- [2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:
- http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- [5] ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

#### **Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.