

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 19.11.2018

SDS Number: R0702840

Version: 2.1

Aqualon™ CMC 9M8F Cellulose Gum  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 430554

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Aqualon™ CMC 9M8F  
 Cellulose Gum  
 ™ Trademark, Ashland or its subsidiaries, registered in  
 various countries

**1.2 Recommended use of the chemical and restrictions on use**

Use of the Substance/Mixture : Rheology modifier

**1.3 Details of the supplier of the safety data sheet**

Ashland  
 P.O. Box 8619  
 NL3009 AP, Rotterdam  
 Netherlands  
 +31 10 497 5000 (in the Netherlands), or  
 contact your local CSR contact person

EUSMT@ashland.com

**1.4 Emergency telephone number**

00-800-274-5263-3/001-859-357-3564, or contact  
 your local emergency telephone number at 111 -  
 ENG, SCO, CYM and 0808 808 8000 - NIE (Mo -  
 Fr, 08.00 - 18.00)

**Product Information**

+31 10 497 5000 (in the Netherlands), or contact  
 your local CSR contact person

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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**2.3 Other hazards****Additional advice**

No information available.

|| No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

|| Chemical nature : organic

High purity sodium carboxymethylcellulose, sodium CMC, 99,5%

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Substances with a workplace exposure limit :			
SODIUM CARBOXYMETHYL CELLULOSE	9004-32-4		>= 90 - <= 100

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice : No hazards which require special first aid measures.

|| No hazards which require special first aid measures.

If inhaled : If breathed in, move person into fresh air.  
 If unconscious place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.

If breathed in, move person into fresh air.  
 If unconscious place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

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recommended that exposed areas be cleaned by washing  
 with soap and water.

First aid is not normally required. However, it is  
 recommended that exposed areas be cleaned by washing  
 with soap and water.

In case of eye contact : Remove contact lenses.  
 Protect unharmed eye.

Remove contact lenses.  
 Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

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

Symptoms : No symptoms known or expected.

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

Treatment : No hazards which require special first aid measures.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local  
 circumstances and the surrounding environment.  
 Water spray  
 Foam

Water spray

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**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air.

Organic dusts at sufficient concentration can form explosive mixtures in air.  
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Standard procedure for chemical fires.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Avoid dust formation.  
 Avoid breathing dust.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Avoid dust formation.  
 Avoid breathing dust.  
 Material can create slippery conditions.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.

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Comply with all applicable federal, state, and local regulations.

**6.2 Environmental precautions**

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
 Keep in suitable, closed containers for disposal.

Pick up and arrange disposal without creating dust.  
 Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For further information see Section 8 and Section 13 of the safety data sheet.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid dust formation.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.

Avoid dust formation.  
 Ensure all equipment is electrically grounded and bonded before beginning transfer operations.  
 The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.  
 Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.  
 Provide appropriate exhaust ventilation at places where dust is formed.

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Take measures to prevent the build up of electrostatic charge.  
 Provide appropriate exhaust ventilation at places where dust  
 is formed.

Hygiene measures : Avoid breathing dust.

Avoid breathing dust.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : No smoking. Electrical installations / working materials must comply with the technological safety standards.

No smoking. Electrical installations / working materials must  
 comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Other data : Keep in a dry place. No decomposition if stored and applied  
 as directed.

Keep in a dry place. No decomposition if stored and applied  
 as directed.

**7.3 Specific end use(s)**

Specific use(s) : No data available

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
SODIUM CARBOXYMETHYL CELLULOSE	9004-32-4	(Inhalable dust.)	10 mg/m <sup>3</sup> Inhalable dust.	EH40 WEL
		(Respirable.)	4 mg/m <sup>3</sup> Respirable.	EH40 WEL



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## 8.2 Exposure controls

### Engineering measures

Provide appropriate exhaust ventilation at places where dust is formed.

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

Eye protection : Safety glasses

Safety glasses

Hand protection

Material : butyl-rubber  
nitrile rubber

Remarks : Wear resistant gloves such as: butyl-rubber

Skin and body protection : Wear as appropriate:  
Safety shoes

Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

Suitable respiratory equipment:  
P1 filter

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : off-white

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Odour : odourless  
 Odour Threshold : No data available  
 pH : 6,5 - 8,5, (as aqueous solution)  
 Melting point/freezing point : No data available  
 Boiling point/boiling range : No data available  
 Flash point : Not applicable  
 Evaporation rate : No data available  
 Flammability (solid, gas) : No data available  
 Upper explosion limit : No data available  
 Lower explosion limit : 60 g/m3  
 No data available  
 Vapour pressure : No data available  
 Relative vapour density : No data available  
 Relative density : No data available  
 Density : 1,59 g/cm3  
 Bulk density : 500 - 1.000 kg/m3  
 Solubility(ies)  
   Water solubility : soluble, Limited by viscosity  
   Solubility in other solvents : No data available  
 Partition coefficient: n-octanol/water : No data available  
 Auto-ignition temperature : 360 °C



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Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**9.2 Other information****SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**No decomposition if stored and applied as directed.**

**10.2 Chemical stability**

Stable under recommended storage conditions.

**No decomposition if stored and applied as directed.**

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Product will not undergo hazardous polymerization.

**Stable under recommended storage conditions.**

**Dust may form explosive mixture in air.**

**10.4 Conditions to avoid**

Conditions to avoid : UV light.  
 Exposure to sunlight.

Keep away from heat, flame, sparks and other ignition sources.

**10.5 Incompatible materials**

Materials to avoid : Acids  
 Bases  
 Oxidizing agents

**10.6 Hazardous decomposition products**

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Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion  
 Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **SODIUM CARBOXYMETHYL CELLULOSE:**

Acute oral toxicity : LD 50 (Rat): 27.000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 5.800 mg/m3  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): Expected > 5 g/kg  
 Remarks: Information given is based on data obtained from similar substances.

#### **Skin corrosion/irritation**

Not classified based on available information.

#### Components:

##### **SODIUM CARBOXYMETHYL CELLULOSE:**

Result: Not irritating to skin

#### **Serious eye damage/eye irritation**

Not classified based on available information.

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**Product:**

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

Remarks: **Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.**

**Components:****SODIUM CARBOXYMETHYL CELLULOSE:**

Result: Not irritating to eyes

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

Remarks: **No data available**

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**SECTION 12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability****Product:**

Biodegradability : Remarks: Slowly biodegradable.

**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Not relevant

**12.6 Other adverse effects****Product:**

Additional ecological information : No data available

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Contaminated packaging : Empty remaining contents.

Empty remaining contents.

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**SECTION 14: Transport information****SECTION 14: Transport information****14.1 UN number****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.2 UN proper shipping name****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.3 Transport hazard class(es)****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.4 Packing group****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.5 Environmental hazards****ADN:** Not applicable

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**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** Not applicable

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
 Not applicable

**The components of this product are reported in the following inventories:**

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TSCA	: On TSCA Inventory
DSL	All components of this product are on the Canadian DSL.
AUSTR	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECL	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16: Other information****Further information**

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**Full text of H-Statements referred to under sections 2 and 3.****Further information**

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports



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The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report



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DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-pharse : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-pharse: Safety phrase

WGK : German Water Hazard Class