PAshland always solving		Page: 1
SAFETY DATA SHEET	Revi	sion Date: 01/08/2018
		Print Date: 9/19/2018
	SI	OS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844		Version: 1.3

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Aqualon™ CMC 7L2

Sodium Carboxymethylcellulose

™ Trademark, Ashland or its subsidiaries, registered in

various countries

Substance name HIGH PURITY SODIUM CARBOXYMETHYLCELLULOSE,

SODIUM CMC, 99.73%

Substance No.

EC-No. 618-378-6

CAS-No. 9004-32-4

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

Recommended use : Rheology modifier

Details of the supplier of the safety data sheet Emergency telephone number 1-800-ASHLAND (1-800-274-5263)

Ashland

P.O. Box 2219

Columbus, OH 43216

United States of America (USA)

+1-614-790-3333

Regulatory Information Number

1-800-325-3751

Product Information +1-614-790-3333

EHSProductSafety@ashland.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible Dust :

GHS label elements

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

P Ashland always solving	Page: 2
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

: Prevention: Precautionary Statements

Keep dust/air mixtures away from ignition sources.

Other hazards None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : organic

Hazardous components No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice : 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.

In case of skin contact : 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.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No symptoms known or expected.

Notes to physician : No hazards which require special first aid measures.

P Ashland always solving	Page: 3
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Specific hazards during

firefighting

: 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

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.

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

Methods and materials for containment and cleaning up

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

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid dust formation.

Ashland always solving	Page: 4
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

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. Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8.

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.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Conditions for safe storage : No smoking.

Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide a

: 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.

Personal protective equipment

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:

Safety shoes

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Avoid breathing dust.

Ashland always solving	Page: 5
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Colour : off-white

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) : Combustible Dust

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : < 1 g/cm3

Bulk density : 550 - 1,000 kg/m3

Solubility(ies)

Water solubility : soluble, Limited by viscosity

Solubility in other solvents : No data available

Partition coefficient: n- : No data available

P Ashland always solving	Page: 6
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

octanol/water

Auto-ignition temperature : 360 °C

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Dust may form explosive mixture in air.

Conditions to avoid : UV light.

Exposure to sunlight.

Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Acids

Bases

Oxidizing agents

Hazardous decomposition

products No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

PAshland always solving Solving	Page: 7
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

Not classified based on available information.

Product:

Acute inhalation toxicity : LC50 (Rat): > 5,800 mg/l

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

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.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Product:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l

Ashland always solving	Page: 8
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

Exposure time: 96 h Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Persistence and degradability

Product:

Biodegradability : Remarks: Inherently biodegradable.

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

112002/111011					
ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

	Page: 9
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always solving	
SAFETY DATA SHEET	Revision Date: 01/08/2018
OAI ETT DATA OTTEET	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose	Version: 1.3
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720077	<u></u>
FR_RAIL_C	
Not dangerous goods	
I.S. DOT - INLAND WATERWAYS	
Not dangerous goods	
DG_ROAD_C	
Not dangerous goods	
y y	
TOO BAIL C	
TDG_RAIL_C Not dangerous goods	
rior dangerode goods	
DG_INWT_C	
Not dangerous goods	
NTERNATIONAL MARITIME DANGEROUS GOODS	
Not dangerous goods	
NTERNATIONAL AIR TRANSPORT ASSOCIATION - C	ARGO
Not dangerous goods	
-	
NITERNATIONAL AIR TRANSPORT ACCOMISTION OF	ACCENCED
NTERNATIONAL AIR TRANSPORT ASSOCIATION - P Not dangerous goods	ASSENGER
inot dangerous goods	
MX_DG	
IX_DG Not dangerous goods	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	1
Warmo ponatarit		

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.

Ashland always solving	Page: 10
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Combustible Dust

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : 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

TSCA : On TSCA Inventory

Inventories

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

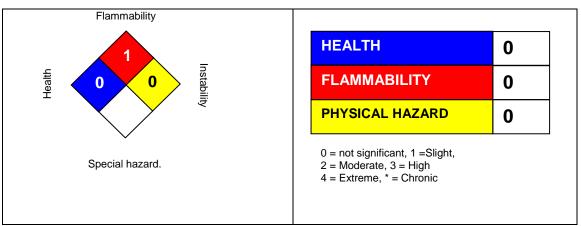
SECTION 16. OTHER INFORMATION

Further information

Revision Date: 01/08/2018

NFPA:	HMIS III:	ì
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PAshland always solving	Page: 11
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3



NFPA Flammable and Combustible Liquids Classification Not applicable

Full text of H-Statements

Sources of key data used to compile the Safety Data Sheet Ashland internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 (1-800-325-3751).

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide;

Ashland always solving	Page: 12
SAFETY DATA SHEET	Revision Date: 01/08/2018
	Print Date: 9/19/2018
	SDS Number: R0392869
Aqualon™ CMC 7L2 Sodium Carboxymethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 420844	Version: 1.3

GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative