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Revision Date: 04/02/2010

Print Date: 6/11/2010

MSDS Number: R0175900 Version: 1.3

Aqualon® CMC 7HOXF Cellulose Gum ® Registered Trademark, Ashland or its subsidiaries 432110

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

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone

1-800-ASHLAND (1-800-274-

Product name

Aqualon® CMC 7HOXF Cellulose Gum

® Registered Trademark, Ashland or its subsidiaries

Product code

432110

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: solid, off-white

WARNING! MAY FORM COMBUSTIBLE DUST-AIR MIXTURES.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

Unlikely to cause skin irritation or injury.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

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This material is a dust or may produce dust. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflammation of the airways of the lungs). Symptoms include coughing and shortness of breath. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous according to the OSHA Hazard Communication Standard 29CFR1910.1200 due to flammable dust potential.

4. FIRST AID MEASURES

Eyes

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If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

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

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available. Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide

Precautions for fire-fighting

Organic dusts at sufficient concentration can form explosive mixtures in air. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

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Product #: 594236 Name: A QUALON CMC 7HOXF FG Desc: SOLYUM CMC From: BRENNTAGM D-SOUTHING. To: IMZCORP DBA SLUMPY'S Thursday, May 15, 2014



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Avoid breathing dust.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Pick up and arrange disposal without creating dust.

Other information

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

7. HANDLING AND STORAGE

Handling

Containers of this material may be bazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Avoid dust formation. The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres. Ensure all equipment is electrically grounded and bonded before beginning transfer operations. 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".

Storage

Store in a cool, dry, ventilated area. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

General advice

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These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. Avoid breathing dust.

Exposure controls

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. For exposures to dust, utilize the exposure limits for Particulates (insoluble) Not Otherwise Classified (PNOC). ACGIH TWA - 10 mg/m3 inhalable fraction, 3 mg/m3 respirable fraction. OSHA PEL - 15 mg/m3 total dust, 5 mg/m3 respirable fraction.

Eye protection

Wear safety glasses or chemical splash goggles when dust exposure is possible.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an airpurifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Form

Colour

Odour

granules, powder

off-white odourless

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Boiling point/boiling range Melting point/range Sublimation point \mathbf{pH}

Flash point

Ignition temperature Evaporation rate

Lower explosion limit/Upper explosion limit

Particle size Vapour pressure Relative vapour density

Density **Bulk density** Water solubility

Solubility

Partition coefficient: n-octanol/water

log Pow

Autoignition temperature Viscosity, dynamic Viscosity, kinematic Solids in Solution

Decomposition temperature

Burning number

Dust explosion constant Minimum ignition energy no data available no data available no data available

6.5 - 8.5 @ 2 % (as aqueous solution)

not applicable 360.00 °C

no data available no data available no data available

no data available no data available

1.59 g/cm³

no data available

soluble, Limited by viscosity

no data available no data available

no data available no data available

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Keep away from heat, flame, sparks and other ignition sources. Exposure to sunlight., UV light., Exposure to moisture.

Incompatible products

Acids, Bases, Oxidizing agents

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Hazardous decomposition products

carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: LD 50 Rat: > 2,000 mg/kg

Acute inhalation toxicity

LC 50 Rat: > 5,800 mg/L

Acute dermal toxicity

LD 50 Rabbit: > 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability

: Slowly biodegradable

Bioaccumulation

Ecotoxicity effects

Toxicity to fish

96 h static test LC 50 Oncorhynchus mykiss (rainbow

trout): $> 100.00 \,\text{mg/L}$

96 h static test LC 50 Lepomis macrochirus (Bluegill

sunfish): > 100.00 mg/L

Toxicity to daphnia and other aquatic invertebrates.

Toxicity to algae

Toxicity to bacteria

Biochemical Oxygen Demand (BOD)

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Chemical Oxygen Demand (COD) Additional ecological information

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION REGULATION MARINE PACKING SUBSIDIARY *HAZARD PROPER SHIPPING NAME ID **POLLUTANT** GROUP **HAZARDS** CLASS NUMBER /LTD. OTY. U.S. DOT - ROAD Not dangerous goods U.S. DOT - RAIL Not dangerous goods U.S. DOT - INLAND WATERWAYS Not dangerous goods TRANSPORT CANADA - ROAD Not dangerous goods TRANSPORT CANADA - RAIL Not dangerous goods TRANSPORT CANADA - INLAND WATERWAYS Not dangerous goods INTERNATIONAL MARITIME DANGEROUS GOODS Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

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Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA Hazard Classification

Fire Hazard

New Jersey RTK Label Information

CELLULOSE

254504001-5918

Pennsylvania RTK Label Information

CELLULOSE

254504001-5918

Notification status

US. Toxic Substances Control Act

y (positive listing)

Canada. Canadian Environmental Protection Act (CEPA).

y (positive listing)

Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) Australia. Industrial Chemical (Notification and Assessment)

y (positive listing)

New Zealand. Inventory of Chemicals (NZIoC), as published

y (positive listing)

by ERMA New Zealand

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Japan. Kashin-Hou Law List

Korea. Toxic Chemical Control Law (TCCL) List

Philippines. The Toxic Substances and Hazardous and Nuclear

Waste Control Act

China. Inventory of Existing Chemical Substances

y (positive listing)

y (positive listing)

y (positive listing)

y (positive listing)

	HMIS	NFPA
	. 0	0
Health		1
Flammability	<u> </u>	
Physical hazards	0	
Instability		
Specific Hazard		

16. 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 MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).