



00517-1075

**ASHLAND  
SAFETY DATA SHEET**

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 1  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**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 (1-800-274-5263) |
| Product name            | Culminal™ MC 2000 S Methylcellulose                                       |                                |
|                         | ™ Trademark, Ashland or its subsidiaries, registered in various countries |                                |
| Product code            | 413245                                                                    |                                |
| Product Use Description | No data                                                                   |                                |

**2. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance: solid, off-white

**WARNING! MAY FORM COMBUSTIBLE DUST-AIR MIXTURES. DUST MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.**

**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**

May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

**Ingestion**

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

Page 1 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

**ASHLAND  
SAFETY DATA SHEET**

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 2  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**Inhalation**

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), Kidney

**Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), thirst, 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**

| Hazardous Components | CAS-No.   | Concentration |
|----------------------|-----------|---------------|
| SODIUM CHLORIDE      | 7647-14-5 | >=1.5-<5%     |

**4. FIRST AID MEASURES**

Page 2 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

**ASHLAND**  
**SAFETY DATA SHEET**

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 3  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**Eyes**

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**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, hydrogen chloride, Sodium oxides

**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.

Page 3 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



**ASHLAND**  
**SAFETY DATA SHEET**

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 4  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**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 hazardous 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**

Page 4 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



## ASHLAND SAFETY DATA SHEET

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 5  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

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 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 air-purifying 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 air-purifying respirator may not provide adequate protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                    |                                       |
|------------------------------------|---------------------------------------|
| <b>Physical state</b>              | solid                                 |
| <b>Form</b>                        | granules, powder                      |
| <b>Colour</b>                      | off-white                             |
| <b>Odour</b>                       | odourless                             |
| <b>Boiling point/boiling range</b> | no data available                     |
| <b>Melting point/range</b>         | no data available                     |
| <b>Sublimation point</b>           | no data available                     |
| <b>pH</b>                          | 6.5 - 8.0 @ 2 % (as aqueous solution) |
| <b>Flash point</b>                 | not applicable                        |

Page 5 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



## ASHLAND SAFETY DATA SHEET

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 6  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

|                                                    |                               |
|----------------------------------------------------|-------------------------------|
| <b>Ignition temperature</b>                        | 380.00 °C                     |
| <b>Evaporation rate</b>                            | no data available             |
| <b>Lower explosion limit/Upper explosion limit</b> | no data available             |
| <b>Particle size</b>                               | no data available             |
| <b>Vapour pressure</b>                             | no data available             |
| <b>Relative vapour density</b>                     | no data available             |
| <b>Density</b>                                     | 0.25 g/cm <sup>3</sup>        |
| <b>Bulk density</b>                                | no data available             |
| <b>Water solubility</b>                            | soluble, Limited by viscosity |
| <b>Solubility</b>                                  | no data available             |
| <b>Partition coefficient: n-octanol/water</b>      | no data available             |
| <b>log Pow</b>                                     | no data available             |
| <b>Autoignition temperature</b>                    | no data available             |
| <b>Viscosity, dynamic</b>                          | no data available             |
| <b>Viscosity, kinematic</b>                        | no data available             |
| <b>Solids in Solution</b>                          | no data available             |
| <b>Decomposition temperature</b>                   | no data available             |
| <b>Burning number</b>                              | no data available             |
| <b>Dust explosion constant</b>                     | no data available             |
| <b>Minimum ignition energy</b>                     | 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.

#### Incompatible products

Acids, Bases, Oxidizing agents

#### Hazardous decomposition products

carbon dioxide and carbon monoxide, hydrogen chloride, Sodium oxides

#### Hazardous reactions

Product will not undergo hazardous polymerization.

#### Thermal decomposition

Page 6 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



**ASHLAND**  
**SAFETY DATA SHEET**

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

No data

Page: 7  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity** : LD 50 Rat : > 2,000 mg/kg  
**Acute inhalation toxicity**  
SODIUM CHLORIDE : LC 50 Rat: > 42 g/m3; 1 h  
**Acute dermal toxicity**  
SODIUM CHLORIDE : LD 50 Rabbit: > 10 g/kg

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Biodegradability : Slowly biodegradable

**Bioaccumulation**

SODIUM CHLORIDE : no data available

**Ecotoxicity effects**

**Toxicity to fish** : LC 50 Fish: > 100.00 mg/L

**Toxicity to daphnia and other aquatic invertebrates.**

SODIUM CHLORIDE : 48 h static test EC 50 Water flea (Daphnia magna):  
340.70 - 469.20 mg/L

**Toxicity to algae**

SODIUM CHLORIDE : no data available

Page 7 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



## ASHLAND SAFETY DATA SHEET

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 8  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

**Toxicity to bacteria**  
SODIUM CHLORIDE

: no data available

**Biochemical Oxygen Demand (BOD)**

: Biochemical oxygen demand within 5 days: > 0 - 100 mg/g

**Chemical Oxygen Demand (COD)**  
SODIUM CHLORIDE

: no data available

**Additional ecological information**  
SODIUM CHLORIDE

: no data available

### 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

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

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Page 8 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.





## ASHLAND SAFETY DATA SHEET

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

Page: 9  
Revision Date: 04/02/2010  
Print Date: 7/15/2011  
MSDS Number: R0703674  
Version: 1.0

Not dangerous goods

### TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

### TRANSPORT CANADA - RAIL

Not dangerous goods

### TRANSPORT CANADA - ROAD

Not dangerous goods

### U.S. DOT - INLAND WATERWAYS

Not dangerous goods

### U.S. DOT - RAIL

Not dangerous goods

### U.S. DOT - ROAD

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

Acute Health Hazard  
Fire Hazard

### New Jersey RTK Label Information

CELLULOSE

254504001-5673

Page 9 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.



## ASHLAND SAFETY DATA SHEET

Culminal™ MC 2000 S Methylcellulose  
™ Trademark, Ashland or its subsidiaries,  
registered in various countries 413245

SODIUM CHLORIDE

7647-14-5

### Pennsylvania RTK Label Information CELLULOSE

254504001-5673

#### Notification status

US. Toxic Substances Control Act  
Canada. Canadian Environmental Protection Act (CEPA).  
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)  
Australia. Industrial Chemical (Notification and Assessment)  
Act  
New Zealand. Inventory of Chemicals (NZIoC), as published  
by ERMA New Zealand  
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)  
n (Negative listing)  
y (positive listing)  
y (positive listing)  
y (positive listing)  
y (positive listing)

|                  | HIMIS | NFPA |
|------------------|-------|------|
| Health           | 2     | 2    |
| Flammability     | 1     | 1    |
| Physical hazards | 0     | 0    |
| Instability      | 0     | 0    |
| 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).

Page 10 / 10

IMPORTANT: While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with the applicable federal, state, and local law. This MSDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.