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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Trade name	 Culminal[™] MC 2000 S Methylcellulose [™] Trademark, Ashland or its subsidiaries, registered in various countries
Substance name	: METHYLCELLULOSE
Substance No. Recommended use of the cher	nical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	
·	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Combustible Dust	:
GHS Label element Signal Word	: Warning
Hazard Statements	: May form combustible dust concentrations in air.
Other hazards None known.	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Chemical nature	: organic

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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	 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) irritation (nose, throat, airways) 		
Notes to physician	: No hazards which require special first aid measures.		

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate circumstances and the surrounding environment. Water spray Foam	o local
Specific hazards during firefighting	Organic dusts at sufficient concentration can form mixtures in air. Do not allow run-off from fire fighting to enter drain courses.	•
Hazardous combustion products	carbon dioxide and carbon monoxide nydrogen chloride Sodium oxides	
Specific extinguishing		

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methods

	Product is compatible with standard fire-fighting ag	ents.
Further information	Standard procedure for chemical fires.	
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing a	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. 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. Electrical installations / working materials must comply with the technological safety standards.	
Materials to avoid	:	No materials to be especially mentioned.	
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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.
Personal protective equipment Respiratory protection	 t No personal respiratory protective equipment normally required.
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: granules, powder
Physical state	: solid
Colour	: off-white
Odour	: odourless
Odour Threshold	: No data available
рН	: 6.5 - 8.0, 2 %(as aqueous solution)
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable

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Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
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	: 0.25 g/cm3
Bulk density	: 200 - 500 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	: 380 °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	: Keep away from heat, flame, sparks and other ignition sources.
	UV light. Exposure to sunlight.

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Incompatible materials

Acids Bases Oxidizing agents

:

Hazardous decomposition products

hydrogen chloride Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation exposure Skin contact Eve Contact

Eye Contact Ingestion

Acute toxicity Not classified based on available information. Skin corrosion/irritation Not classified based on available information. Serious eye damage/eye irritation Not classified based on available information. <u>Product:</u> 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. **Further information** Product: Remarks: No data available Carcinogenicity: IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

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equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity No data available Persistence and degradabilit	y	
Product:		
Biodegradability	:	Remarks: Slowly biodegradable.
Biochemical Oxygen Demand (BOD)	:	Biochemical oxygen demand within 5 days > 0 - 100 mg/g
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

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

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

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

Marine pollutant

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no

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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.

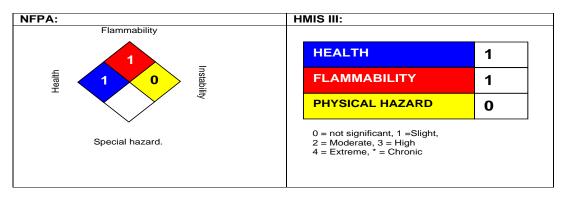
SECTION 15. REGULATORY INFORMATION SARA 311/312 Hazards : Fire Hazard **US State Regulations** Pennsylvania Right To Know **ČELLULOSE** 254504001-90.00 - 100.00 5673 The identity of one or more component(s) is being withheld under business confidentiality. New Jersey Right To Know CELLULOSE 254504001-90.00 - 100.00 5673 The identity of one or more component(s) is being withheld under business confidentiality. SODIUM CHLORIDE 7647-14-5 1.00 - 5.00 % **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. The components of this product are reported in the following inventories: 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 NZIOC : Not 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)

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SECTION 16. OTHER INFORMATION

Further information

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

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).

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.

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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 CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act DOT : Department of Transportation FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act HMIRC : Hazardous Materials Information Review Commission HMIS : Hazardous Materials Identification System NFPA : National Fire Protection Association NIOSH : National Institute for Occupational Safety and Health **OSHA** : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System