



MATERIAL SAFETY DATA SHEET

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MSDS NO. 2010/39

ISSUE DATE: 05/27/2010

SUPERSEDES: 1993/10, 1996/ 06, 2002/06, 2007/03

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ashacel Ethyl Cellulose

Synonym: Cellulose Ether

CAS # 9004-57-3, EINEC NO. 232 – 674 - 9

Chemical Family: Cellulose Derivatives

Chemical Formula: Polymer

MANUFACTURER:
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24 HOURS CONTACT NO. +1 913 226 7891

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Static charge generated while emptying package in or near flammable vapors may cause flash fire.

PHYSICAL APPEARANCE: White to off white granular powder

POTENTIAL HEALTH EFFECTS (See section 11 for toxicological data)

This product is not hazardous according to EEC directives 67/548/EEC and 99/45/EC or Regulation EC No.1272/2008

EYES: May cause eye irritation

SKIN: May cause skin irritation

INGESTION: Ingestion may cause gastrointestinal irritation

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INHALATION: May cause respiratory tract irritation**CANCER INFORMATION:** Did not cause cancer in long term animal studies.**CARCINOGENIC & MUTAGENIC EFFECTS:** Not available.**GHS LABEL ELEMENTS:** Void**ADDITIONAL INFORMATION:**

All chemicals are potentially dangerous. They should be handled by specially trained personnel.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Name | CAS # | % by weight |
|-----------------|---------------|-------------|
| Ethyl Cellulose | 9004 - 57 - 3 | 98 |
| Water | 7732 - 18 - 5 | 2 |

SECTION 4. FIRST AID MEASURES**GENERAL INFORMATION:** Immediately remove any clothing soiled by the product**EYE CONTACT:**Immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention if irritation persists.**SKIN CONTACT:**

Wash skin with plenty of water for 15 minutes and seek medical attention if irritation develops or persists.

INGESTION

No adverse health effects are expected from accidental ingestion of small amounts of this Product.

INHALATION

If inhaled remove to fresh air immediately. If breathing is difficult give artificial respiration or oxygen. Get medical aid.

SECTION 5. FIRE AND EXPLOSION DATA**FLAMMABLE PROPERTIES:**

May be combustible at high temperature.

Flash Point: Not applicable**Auto-Ignition Temperature:** 370°C



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Flammability Limits: LEL – Not Applicable
HEL – Not Applicable

HAZARDOUS COMBUSTION PRODUCTS:

During combustion unidentified toxic compounds may be released along with smoke.
Hazardous combustion products are not limited to Carbon Monoxide, Carbon Dioxide.

OTHER FLAMMABILITY INFORMATION:

Mechanical handling of this product may lead to the formation of dust clouds / layers which can be ignited by spontaneous combustion or any other ignition source when suspended in air. Dust cloud in air may pose an explosion hazard.

EXTINGUISHING MEDIA: Water, Carbon dioxide, Dry Chemical Powder.

FIRE FIRGHTING INSTRUCTIONS:

Keep People away and cordon off the area. Spray adequate quantity of water to cool and prevent re-ignition.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Wear positive pressurized self –contained breathing apparatus and fully protective suit (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available, fight fire from a protected location or safe distance.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL SAFETY PREACUTIONS:

Avoid formation of dust.
Product forms slippery surface when combined with water.
Depending on the extent of release/spillage, consider the need for fire fighters. Wear adequate personal protective equipment while cleaning up.
Avoid all sources of ignition, hot surfaces and open flames.

ENVIRONMENT PROTECTION MEASURES:

Contain spilled material to prevent contamination of surface or ground water and soil. Do not allow the spillage to enter storm sewers or drains

MEASURES FOR CLEANING / COLLECTING:

Pick up mechanically.
Do not flush with water or aqueous cleansing agents.
Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable rules and regulations.



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SECTION 7. HANDLING AND STORAGE

HANDLING:

Ground all equipments. Keep container tightly closed.
Avoid or minimize dust generation and accumulation.
Avoid emptying the package in or near flammable vapors. Static Electricity charge may cause flash fire. Do not smoke. Avoid all sources of ignition, open flames while handling.

STORAGE:

Store in dry and well ventilated area below 30°C. Keep away from sun light, heat, open flames, sparks and other sources of ignition. Do not store with Peroxides and Oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WORK PRACTICE & ENGINEERING CONTROLS

Eyewash fountains and safety showers should be easily accessible
Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

GENERAL HYGIENE PRACTICES

Avoid contact with eyes, skin and clothing.
Avoid breathing dust, vapor or mist.
Avoid contamination of food, beverages.
Wash thoroughly after handling and before eating, drinking or smoking
Remove contaminated clothing promptly and clean thoroughly before reuse.

RECOMMENDED EXPOSURE LIMITS

PARTICULATES (dust): If used under conditions that generate particulates (dust), the ACGIH TLV-TWA of 3 mg/m³ fraction should be observed.

PERSONAL PROTECTIVE EQUIPMENT

EYES: Wear appropriate protective eye glasses or Chemical Safety glasses as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

HAND GLOVES: Wear impervious gloves

RESPIRATORS: Appropriate respiratory protection is required when exposure to Airborne contaminants. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134) and manufacturer's recommendations.



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SKIN: Wear appropriate protective clothing to prevent skin from exposure.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE

Eliminate ignition sources and prevent build-up of static electrical charges

Completely isolate and thoroughly clean all equipments, piping or vessels before beginning maintenance or repairs.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|--|
| PHYSICAL STATE: | Granular powder |
| BOILING POINT: | Not Applicable |
| FLASH POINT: | Not Applicable |
| VAPOR PRESSURE: | Not Applicable |
| VAPOR DENSITY: | Not Applicable |
| AUTO-IGNITION TEMP.: | 370 ^o C |
| COLOR: | White to off white |
| ODOR: | Almost Odorless |
| PERCENT VOLATILE: | Negligible at 20 °C |
| SOLUBILITY IN WATER: | Negligible at 20 °C |
| FLAMMABILITY: | Not Flammable |
| DANGER OF EXPLOSION: | Product does not present an explosion hazard |

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Chemically stable under recommended storage conditions. (See Section 7 for storage)

CONDITIONS TO AVOID: Product can decompose at elevated temperatures.

MATERIALS TO BE AVOIDED: Avoid contact with Oxidizing agents, Peroxides, strong acids and strong bases.

HAZARDOUS POLYMERIZATION:

Not anticipated under normal or recommended handling and storage conditions

SECTION 11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY INFORMATION

Not listed as a Carcinogen by NTP, IARC & ACGIH.

Not regulated as a carcinogen by OSHA.

REPORTED HUMAN EFFECTS

Not a skin irritant or skin sensitizer based on human patch tests.

Due to the physical nature of this material, may cause eye, skin and respiratory irritation.



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REPORTED ANIMAL EFFECTS

Acute oral LD50 (rat): > 5000 mg/kg.
Dermal LD50 (rabbit): > 5000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

No ecological studies are known to have been reported on this product.

MOBILITY AND BIO-ACCUMULATION POTENTIAL:

Does not accumulate in organisms.

ECOTOXICOLOGY:

Not expected to be acutely toxic. Quantitative data on the effect of this product are not available.

GENERAL NOTE: Do not allow large quantities of this product to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

All disposal methods should be in compliance with local law and regulations. Regulations may vary in different locations.

Land filling in a permitted solid or hazardous waste facility authorized by the local authorities is recommended.

SECTION 14. TRANSPORT INFORMATION

TRANSPORT INFORMATION:

This product is not subject to DOT, ICAO, IMDG OR ADR regulations and is safe for transport by rail, road, air or sea.

SECTION 15. REGULATORY INFORMATION

LABELLING ACCORDING TO EU GUIDELINES:

This product is not required to be labeled according to EEC directive 67/548/EEC / directive 1999/45/EC or regulation (EC) No. 1272/2008

CHEMICAL INVENTORIES

U.S. TSCA: The components of this product are included on the TSCA Inventory.



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SARA TITLE III – SECTIONS 302/304

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

SARA TITLE III - SECTION 311 AND 312

NHH: Not a health hazard

HC-3: Fire Hazard

SARA TITLE III - SECTION 313

This product does not contain any chemical subject to reporting under Section 313 of Title III of the Superfund amendments and Reauthorization Act and 40CFR372.

CERCLA

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous substance as per 40 CFR302.4

RCRA

This product is not a hazardous waste as listed in 40CFR261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR261, Sub part C.

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

WHMIS INFORMATION:

The Canadian Work Place Hazardous Material Information System (WHMIS) classification for this product is: This product is not a “Controlled Product” under WHMIS.

SECTION 16. OTHER INFORMATION

HMIS RATINGS:

| | | |
|---------------------|---|----------------|
| Health | 1 | Slight Hazard |
| Fire | 1 | Slight Hazard |
| Reactivity | 0 | Minimal Hazard |
| Personal Protection | E | |

National Fire Protection Act Codes:

NPFA Code





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LIST OF ACRONYMS

| | |
|------------------|--|
| ACGIH | : American Conferences of Government Industrial Hygienists |
| AIHA WEEL | : American Industrial Hygienists Association - Workplace Environmental Exposure Level |
| CASRN | : Chemical Abstracts Service Registry Number |
| CERCLA | : Comprehensive Emergency Response, Compensation and Liability Act |
| HMIS | : Hazardous Materials Identification System |
| IARC | : International Agency for Research on Cancer |
| NTP | : National Toxicology Program |
| OSHA | : Occupational Safety and Health Administration |
| PEL | : OSHA Permissible Exposure Limit |
| RCRA | : Resource Conservation and Recovery Act |
| RQ | : Reportable Quantity |
| SARA | : Superfund Amendment Reauthorization Act |
| STEL | : Short – Term Exposure Limit |
| TLV | : Threshold Limit Values (registered trademark of ACGIH) |
| TPQ | : Threshold Planing Quantity |
| TSCA | : Toxic Substance Control Act |
| TWA | : Time Weighted Average |