SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: Ecopol-18S
Synonyms: Powdered Gel

Intended Use of the Product
Gelling Agent. For professional use only.

Name, Address, and Telephone of the Responsible Party

Customer
Economy Polymers & Chemicals
435 E. Anderson Road
Houston, TX 77047
713-723-8416; 1-800-231-2066
www.economypolymers.com

Emergency Telephone Number
Emergency Number : CHEMTREC 1-800-424-9300 (US); 703-527-3887 (International, collect calls are accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture
Classification (GHS-US)
Comb. Dust

Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling
Signal Word (GHS-US) : Warning
Hazard Statements (GHS-US) : May form combustible dust concentrations in air.

Other Hazards
Dust may form explosive mixture in air.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guar gum, carboxymethyl 2-hydroxypropyl ether, sodium salt</td>
<td>(CAS No) 68130-15-4</td>
<td>60 - 10</td>
<td>Comb. Dust</td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel</td>
<td>(CAS No) 112926-00-8</td>
<td>0.1 - 1</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: When symptoms occur: rinse immediately with plenty of water. Do not rub.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.
**Ecopol-18S**
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Prolonged contact with large amounts of dust may cause mechanical irritation.

**Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Skin Contact:** Dust may cause irritation in skin folds or by contact in combination with tight clothing.

**Eye Contact:** Eye contact with dust may cause mechanical irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**
If you feel unwell, seek medical advice (show the label where possible).

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire. Water spray, fog.

**Unsuitable Extinguishing Media:** Do not use a high powered water stream. Use of a high powered stream may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Under fire conditions, decomposition may produce hazardous fumes. Combustible Dust.

**Explosion Hazard:** Product itself is not explosive, but if dust is generated, dust clouds suspended in air can be explosive.

**Reactivity:** Reacts with strong oxidants causing fire and explosion hazard.

**Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Do not breathe fumes from fires or vapors from decomposition.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Thermal decomposition generates: carbon oxides. Hydrocarbons.

**Other Information:** Do not allow run-off from firefighting to enter drains or water courses.

**Reference to Other Sections**

Refer to section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid generating dust. Avoid breathing dust. Handle in accordance with good industrial hygiene and safety practice. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation.

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate/ignition sources.

**Environmental Precautions**

Prevent entry to sewers and public waters.

**Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid. Use only non-sparking tools.

**Methods for Cleaning Up:** Avoid generation of dust during clean-up of spills. Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Contact competent authorities after a spill.

**Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.
SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Ensure adequate ventilation. Avoid creating or spreading dust. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Comply with applicable regulations.

Storage Conditions: Keep only in the original container in a cool, well ventilated place away from:
- Direct sunlight.
- Heat sources.

Keep container closed when not in use.

Incompatible Materials: Strong oxidizers.

Specific End Use(s)

Gelling Agent.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

<table>
<thead>
<tr>
<th>Silica, amorphous, precipitated and gel (112926-00-8)</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Exposure Controls

Appropriate Engineering Controls: Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Ensure that all electrical components/systems are in compliance with the National Electrical Code. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.


- Hand Protection: In case of repeated or prolonged contact wear gloves.
- Eye Protection: In case of dust production: protective goggles.
- Skin and Body Protection: In case of dust production: dustproof clothing.
- Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
- Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

- Physical State: Solid
- Appearance: Yellow Powder
Ecopol-18S
Safety Data Sheet
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Odor: Mild Bean-like
Odor Threshold: Not available
pH: 5 - 7 (0.5% Solution)
Evaporation Rate: Not available
Melting Point: Not available
Freezing Point: Not available
Boiling Point: Not available
Flash Point: > 150 °C (> 302 °F)
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20 °C: Not available
Relative Density: Not available
Specific Gravity: 1.45
Solubility: Forms a gel
Partition Coefficient: N-Octanol/Water: Not available
Viscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge: Static discharge could act as an ignition source.

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Reacts with strong oxidants causing fire and explosion hazard.
Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials. Sources of ignition. Generation of airborne dust.
Incompatible Materials: Strong oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
pH: 5 - 7 (0.5% Solution)
Serious Eye Damage/Irritation: Not classified
pH: 5 - 7 (0.5% Solution)
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Prolonged inhalation of dust may cause respiratory irritation.
Symptoms/Injuries After Skin Contact: Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/Injuries After Eye Contact: Eye contact with dust may cause mechanical irritation.
**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Information on Toxicological Effects - Ingredient(s)**

<table>
<thead>
<tr>
<th>LD50 and LC50 Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, amorphous, precipitated and gel (112926-00-8)</td>
</tr>
<tr>
<td>IARC Group</td>
</tr>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**
No additional information available

**Persistence and Degradability**

| Ecopol-18S |
| Persistence and Degradability |
| Not established. |

**Bioaccumulative Potential**

| Ecopol-18S |
| Bioaccumulative Potential |
| Not established. |

**Mobility in Soil**
Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, provincial, territorial, national, and international regulations.

**SECTION 14: TRANSPORT INFORMATION**

**In Accordance With ICAO/IATA/DOT/TDG**

| 14.1. UN Number |
| Not regulated for transport |
| 14.2. UN Proper Shipping Name |
| Not regulated for transport |
| 14.3. Additional Information |
| Not regulated for transport |

**Transport by Sea**
Not regulated for transport

**Air Transport**
Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations**

| Guar gum, carboxymethyl 2-hydroxypropyl ether, sodium salt (68130-15-4) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

**US State Regulations**

| Silica, amorphous, precipitated and gel (112926-00-8) |
| U.S. - Massachusetts - Right To Know List |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List |

**Canadian Regulations**

| Ecopol-18S |
| WHMIS Classification |
| Uncontrolled product according to WHMIS classification criteria |

| Guar gum, carboxymethyl 2-hydroxypropyl ether, sodium salt (68130-15-4) |
| Listed on the Canadian DSL (Domestic Substances List) |

| Silica, amorphous, precipitated and gel (112926-00-8) |
| Listed on the Canadian DSL (Domestic Substances List) |

| WHMIS Classification |
| Uncontrolled product according to WHMIS classification criteria |
Ecopol-18S
Safety Data Sheet

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 06/03/2015
Data Sources : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Comb. Dust</th>
<th>Combustible Dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2