



## Material Safety Data Sheet

# CLA CHEK LP

HEALTH	*	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### 1. Product and Company Identification

<b>Material name</b>	<b>CLA CHEK LP</b>
<b>Patent Number</b>	Not available
<b>Version No.</b>	4
<b>CAS #</b>	Mixture
<b>Product use</b>	Clay Control
<b>Manufacturer information</b>	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
<b>Emergency</b>	CHEMTREC 1-800-424-9300/703-527-3887
<b>Supplier information</b>	Universal Well Services, Inc. 18360 Technology Drive Meadville, PA 16335 US

### 2. Hazards Identification

<b>Emergency overview</b>	Irritating to eyes and skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Eyes</b>	Do not get this material in contact with eyes.
<b>Skin</b>	Do not get this material in contact with skin.
<b>Inhalation</b>	Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Ingestion</b>	May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Central nervous system. Eyes. Lungs. Respiratory system. Skin.
<b>Chronic effects</b>	Shortness of breath. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
<b>Signs and symptoms</b>	Discomfort in the chest. Shortness of breath. Narcosis. Decrease in motor functions. Behavioral changes. Cough.
<b>Potential environmental effects</b>	May cause long-term adverse effects in the environment.





### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethylene Glycol	107-21-1	30 - 60

### 4. First Aid Measures

#### First aid procedures

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Skin contact**

Wash off with soap and water. Get medical attention if irritation develops or persists.

**Inhalation**

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

**Ingestion**

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

**Notes to physician**

Symptoms may be delayed.

**General advice**

Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire Fighting Measures

**Flammable properties**

Not a fire hazard. The product is not flammable.

**Extinguishing media****Suitable extinguishing media**

Water. Alcohol foam. Polymer foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Protection of firefighters****Protective equipment and precautions for firefighters**

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

### 6. Accidental Release Measures

**Personal precautions**

Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods for containment**

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.





## 7. Handling and Storage

<b>Handling</b>	Do not breathe vapors or spray mist. Use only with adequate ventilation. Wash thoroughly after handling. Avoid prolonged exposure.
<b>Storage</b>	Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

#### Components

#### CAS #

#### TWA

#### STEL

#### Ceiling

Ethylene Glycol	107-21-1	Not established	Not established	100 mg/m3
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### Engineering controls

Provide adequate ventilation.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Skin protection

Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Protective gloves. Impervious gloves.

#### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### General hygiene considerations

When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Liquid.
<b>Color</b>	clear, colorless - light yellow
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	4 - 8
<b>Melting point</b>	26.6 °F (-3.14 °C) estimated
<b>Freezing point</b>	Not available
<b>Boiling point</b>	260.6 °F (127 °C) estimated
<b>Flash point</b>	N.D
<b>Evaporation rate</b>	Not available
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available





<b>Vapor density</b>	Not available
<b>Specific gravity</b>	1.03 - 1.06
<b>Relative density</b>	1.0449 g/cm <sup>3</sup> estimated
<b>Solubility (water)</b>	Not available
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	748.4 °F (398 °C) estimated
<b>Decomposition temperature</b>	Not available
<b>VOC</b>	23.08 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Incompatible materials</b>	Amines. Isocyanates. Strong oxidizing agents. Strong acids. Caustics.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 9176 mg/kg estimated, Rat, Oral
<b>Component analysis - LD50</b>	
<b>Toxicology Data - Selected LD50s and LC50s</b>	
Ethylene Glycol	107-21-1 Oral LD50 Rat: 4000 mg/kg; Dermal LD50 Rabbit: 9530 µL/kg
<b>Sensitization</b>	Not expected to be hazardous by OSHA criteria.
<b>Chronic effects</b>	Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>ACGIH - Threshold Limits Values - Carcinogens</b>	
Ethylene Glycol	107-21-1 A4 - Not Classifiable as a Human Carcinogen
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.	
<b>Ecotoxicity - Freshwater Algae Data</b>		
Ethylene Glycol	107-21-1	96 Hr EC50 Selenastrum capricornutum: 6500-1300 mg/L
<b>Ecotoxicity - Freshwater Fish Species Data</b>		
Ethylene Glycol	107-21-1	96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Lepomis macrochirus: 27500 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 49000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static]
<b>Ecotoxicity - Microtox Data</b>		
Ethylene Glycol	107-21-1	30 min EC50 Photobacterium phosphoreum: 620.0 mg/L; 30 min EC50 Photobacterium phosphoreum: 620 mg/L; 16 Hr EC50 Pseudomonas putida: 10000 mg/L
<b>Ecotoxicity - Water Flea Data</b>		
Ethylene Glycol	107-21-1	48 Hr EC50 water flea: 46300 mg/L



**Environmental effects****Ecotoxicity - Freshwater Algae Data**

Ethylene Glycol 107-21-1 96 Hr EC50 Selenastrum capricornutum: 6500-1300 mg/L

**Ecotoxicity - Freshwater Fish Species Data**

Ethylene Glycol 107-21-1 96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Lepomis macrochirus: 27500 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 49000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static]

**Ecotoxicity - Microtox Data**

Ethylene Glycol 107-21-1 30 min EC50 Photobacterium phosphoreum: 620.0 mg/L; 30 min EC50 Photobacterium phosphoreum: 620 mg/L; 16 Hr EC50 Pseudomonas putida: 10000 mg/L

**Ecotoxicity - Water Flea Data**

Ethylene Glycol 107-21-1 48 Hr EC50 water flea: 46300 mg/L

**13. Disposal Considerations****Disposal instructions**

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

**14. Transport Information****Department of Transportation (DOT) Requirements**

Not regulated as hazardous goods.

**Department of Transportation (DOT) Requirements****Bulk**

Not regulated as hazardous goods.

**Department of Transportation (DOT) Requirements**

Not regulated as dangerous goods.

**Canadian Transportation of Dangerous Goods (TDG) Requirements**

Not regulated as hazardous goods.

**IMDG**

Not regulated as hazardous goods.

**IATA**

Not regulated as hazardous goods.

**15. Regulatory Information****Labelling****Contains**

Ethylene Glycol

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

Ethylene Glycol 107-21-1 1.0 % de minimis concentration



**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical Yes

**CERCLA (Superfund) reportable quantity**

Ethylene Glycol: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No**Section 302 extremely hazardous substance** No**Section 311 hazardous chemical** Yes**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**International regulations****Canada - WHMIS - Ingredient Disclosure List**

Ethylene Glycol 107-21-1 1 %

**State regulations**

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

**U.S. - Massachusetts - Right To Know List**

Ethylene Glycol 107-21-1 Present

**U.S. - Minnesota - Hazardous Substance List**

Ethylene Glycol 107-21-1 Present (particulate and vapor)

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Ethylene Glycol 107-21-1 sn 0878

**U.S. - Pennsylvania - RTK (Right to Know) List**

Ethylene Glycol 107-21-1 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**

Ethylene Glycol 107-21-1 Toxic; Flammable

**U.S. - Texas - Effects Screening Levels - Long Term**

Ethylene Glycol 107-21-1 10 ppb ESL (46% Ethylene glycol); 26 µg/m3 ESL (46% Ethylene glycol)

**U.S. - Texas - Effects Screening Levels - Short Term**

Ethylene Glycol 107-21-1 100 ppb ESL (46% ethylene glycol); 260 µg/m3 ESL (46% ethylene glycol)

**16. Other Information****HMIS® ratings**Health: 1\*  
Flammability: 0  
Physical hazard: 0



**NFPA ratings**

Health: 2  
Flammability: 0  
Instability: 0

**Prepared by**

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**Disclaimer**

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**MSDS sections updated**

Product and Company Identification: Product and Company Identification

