

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** ETHYLENE GLYCOL 50%  
**Control Number:** 00015  
**Product Description:** Freezing Point Suppressor

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.  
916 West Lathrop Avenue  
Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC  
**General Information:** (912) 236-1331

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

[ Health ]

[ Environmental ]

[ Physical ]

Acute toxicity, Oral Category 4

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Warning

#### Hazard statement(s)

H302 Harmful if swallowed.

#### Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330 Rinse mouth.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL NAME   | CAS Number | %WT |
|-----------------|------------|-----|
| Ethylene Glycol | 107-21-1   | 50  |

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation persists..

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Wash out mouth with water. Seek medical attention.

# SAFETY DATA SHEET



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## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous combustion products:** Oxides of carbon and various hydrocarbons

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Eliminate all ignition sources. Suitable protective clothing should be worn. Shut off or plug source of spill. Small spills: absorb on inert media and collect into suitable container.

Large Spills: Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Avoid contaminating ground and surface water.

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists.

**Storage:** Keep container closed and tightly sealed when not in use. Use good hygiene practices.

Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers..

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Ethylene Glycol 100 ppm ACGIH; 50 ppm OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

**Other Equipment:** Eye wash station and shower in close proximity to use are advised.

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** non-combustible

**Autoignition Temperature:** No available data

**Boiling Point:** >250 °F

**Melting Point:** No available data

**Vapor Pressure:** 1 mmHg

**Vapor Density (Air-1):** 2.14

**Odor/Appearance:** Clear colorless liquid with sweet odor

**Flammability Limits:** Lower: 3 Upper: 9

**Specific Gravity:** 1.06

**Volatile %:** No available data

**Evaporation Rate (Water = 1):** 1

**pH:** No available data

**Solubility in Water:** Complete

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## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.

**Conditions to Avoid:** None known.

**Incompatible materials:** Strong acids, Strong oxidizing agents, Strong bases, Aldehydes, Aluminum.

**Decomposition Products:** When combusted, oxides of carbon and various hydrocarbons.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.

**Eyes:** Vapors are irritating to the eyes. Liquid contact will cause stinging and tearing.

**Inhalation:** Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.

**Ingestion:** If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

### Acute oral toxicity:

Ethylene Glycol: LD50 rat: 4,700 mg/kg

### Acute inhalation toxicity:

Ethylene Glycol: LD50 rat: 10,626 mg/kg

### Acute dermal toxicity:

Ethylene Glycol: LD50 rabbit; No published data

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 18,500 mg/l - 96 h

NOEC - *Pimephales promelas* (fathead minnow) - 39,140 mg/l - 96 h

**Bio-accumulative potential:** Bioaccumulation of this product is not expected to be significant. This product is readily biodegradable.

**Mobility:** No available data on accidental spillage.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

**Hazard Class:** 9

**UN Number:** 3082

**Packaging Group:** 3

# SAFETY DATA SHEET



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## SECTION 15 · REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Health Hazard, Delayed Health Hazard,

**SARA Section 313 (40 CFR 372) Hazard Categories:** This product contains the following toxic chemical subject to reporting requirements,

**Clean Water Act:** This product contains Ethylene Glycol a chemical that are listed under the CWA.

**Clean Air Act:** This product contains no chemicals that are listed under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 · OTHER INFORMATION

**MSDS Revision Date:** August 2014

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.