

# Ethylene Glycol Handling Guide

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### **Ethylene Glycol Handling Guide**

about DOWTHERM ethylene glycol-based fluids only. For additional information about DOWFROST propylene glycol-based fluids, call 1-800-447-4369 and request Form No. 180-01286, "Engineering and Operating Guide for D OWFROST and D HD Inhibited Propylene Glycol-based Heat Transfer Fluids." Dow offers you a choice of ethylene glycol-based fluids

### **Engineering and Operating Guide for DOWTHERM SR-1 and ...**

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### **Ethylene Glycol Handling Guide - [food.whistleblower.org](http://food.whistleblower.org)**

Ethylene glycol has many uses, including as antifreeze in cooling and heating systems, in hydraulic brake fluids, and as a solvent. Acute (short-term) exposure of humans to ethylene glycol by ingesting large quantities causes three stages of health effects:

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central nervous system (CNS) depression, followed by cardiopulmonary effects, and later renal damage.

## **Ethylene Glycol - US EPA**

Glycol Ethers Storage and Handling Guide Refer to the Safety Data Sheets and Transportation Equipment Data/Emergency Response sheet for each glycol ether and glycol ether acetate for the most recent storage and handling information for the product. Storage of Glycol Ethers The storage of glycol ethers presents no unusual problems.

## **Glycol Ethers Storage and Handling Guide**

Ethylene glycol (IUPAC name: ethan-1,2-diol) is an organic compound widely used as an automotive antifreeze and a precursor to polymers. Ethylene glycol is toxic, and ingestion can result in death. Ethylene glycol is not to be confused with diethylene glycol, a heavier ether diol, or with polyethylene glycol, a nontoxic polyether polymer.

## **Ethyleneglycol (MEG) - Cargo Handbook - the world's ...**

ethylene glycol as an antifreeze is based on its ability to lower the freezing point when mixed with water. The physical properties of ethylene glycol-water mixtures are therefore extremely important. The end uses for ethylene glycol are numerous (See Table 1). Ethylene Glycol - The Versatile Performer

## **Ethylene Glycol - MEGlobal**

Inhalation of ethylene glycol vapors or mists (such as from de-icing sprayers or presence in poorly ventilated confined spaces) can cause eye and respiratory tract irritation, headache, cough, nausea or vomiting, and may damage the lungs, kidneys and liver in sufficiently high concentrations.

## **Chemical Spotlight - Ethylene Glycol | MSDSONline**

Indoor Air: Ethylene glycol can be released into indoor air as a liquid spray (aerosol), vapor, or mist. Water: Ethylene glycol can be used to contaminate water. Food: Ethylene glycol can be used to contaminate food. Outdoor Air: Ethylene glycol can be released into outdoor air as a liquid spray (aerosol), vapor, or

mist.

## **ETHYLENE GLYCOL : Systemic Agent - CDC**

Overview. CAS No. 107-21-1. Ethylene glycol (HOCH<sub>2</sub>CH<sub>2</sub>OH) is a colorless, syrupy liquid. It can harm the eyes, skin, kidneys, and respiratory system. Ethylene glycol can cause death if swallowed. Workers may be harmed from exposure to ethylene glycol.

## **Ethylene Glycol | NIOSH | CDC**

Ethylene glycol is also commonly used in chilled-water air-conditioning systems that either place the chiller or air handlers outside or must cool below the freezing temperature of water. In geothermal heating /cooling systems, ethylene glycol is the fluid that transports heat through the use of a geothermal heat pump.

## **Ethylene glycol - Wikipedia**

Guidechem provides Ethylene glycol chemical database query, including CAS registry number 107-21-1, Ethylene glycol MSDS (Material Safety Data Sheet), nature, English name, manufacturer, function/use, molecular weight, density, boiling point, melting point, structural formula, etc. Find chemicals information Ethylene glycol at guidechem, professional and easy to use.

## **Ethylene glycol chemical query, melting point boiling ...**

Ethylene glycol is a clear, colorless syrupy liquid. The primary hazard is the threat to the environment. Immediate steps should be taken to limit its spread to the environment. Since it is a liquid it can easily penetrate the soil and contaminate groundwater and nearby streams.

## **ETHYLENE GLYCOL | CAMEO Chemicals | NOAA**

The most common source of ethylene glycol is automotive antifreeze or radiator coolant, where concentrations are high. Other sources of ethylene glycol include windshield deicing agents, brake fluid, motor oil, developing solutions for hobby photographers, wood stains, solvents, and paints.

## **Ethylene glycol poisoning - Wikipedia**

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Esters, such as ETHYLENE GLYCOL DIPROPIONATE, react with acids to liberate heat along with alcohols and acids. Strong oxidizing acids may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products. Heat is also generated by the interaction of esters with caustic solutions.

## **ETHYLENE GLYCOL DIPROPIONATE | CAMEO Chemicals | NOAA**

Ethylene glycol production and purification. Ethylene oxide is reacted with CO<sub>2</sub>, forming ethylene carbonate, which is then hydrolyzed to form MEG and CO<sub>2</sub>. Both reactions are carried out in the liquid phase using homogeneous catalysts. CO<sub>2</sub> streams from the reaction steps are recycled to the ethylene carbonate reactor.

## **Ethylene Glycol Production - Chemical Engineering | Page 1**

Ingestion of ethylene glycol (120 mg/kg body weight or 0.1 mL/kg body weight) can result in a toxic concentration. An approximate lethal ethylene glycol dose in adults is approximately 100 cc (or) 1.4 mL/kg or 1.56g/kg.

### **Lab Test: Ethylene Glycol (Serum) Level**

ethylene glycol fluids: viscosity and toxicity. Ethylene glycol-based fluids are less viscous than propylene glycol-based fluids. Therefore, they generally provide superior heat transfer efficiency and better low temperature performance and are preferred for most heat transfer applications. However, in applications where toxicity is a concern, propylene glycol

## **Engineering and Operating Guide for DOWFROST and DOWFROST ...**

We also performed a study on equipment selection (Air Cooled Chiller and Air Handling Unit), for both ethylene glycol and propylene glycol, for a building requiring approximately 22,000 CFM airflow and approximately 95 Tons of cooling. When comparing the two air handlers, it can be seen that the weight of the ethylene glycol air handler is ...

## **Why Is Ethylene Glycol the Best? Find Out. | Obernel ...**

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Antifreeze/coolant (ethylene glycol), found in rear projection TVs. Several of the components listed above are regulated as universal waste once removed from electronics. Universal waste is a specific subset of widely generated hazardous waste with reduced requirements for collection and management if properly recycled.

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