

## *Ethylene Glycol Solutions*

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**Ethylene Glycol Solutions**

Ethylene Glycol based water solutions are common in heat-transfer applications where the temperature in the heat transfer fluid can be below 32 °F (0 °C). Ethylene glycol is also commonly used in heating applications that temporarily may not be operated (cold) in surroundings with freezing conditions - such as cars and machines with water cooled engines.

**Ethylene Glycol Heat-Transfer Fluid - Engineering ToolBox**

Ethylene glycol may also be one of the minor ingredients in screen cleaning solutions, along with the main ingredient isopropyl alcohol. Ethylene glycol is commonly used as a preservative for biological specimens, especially in secondary schools during dissection as a safer alternative to formaldehyde. It is also used as part of the water-based ...

**Ethylene glycol - Wikipedia**

The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke.

**ethylene glycol | Sigma-Aldrich**

Polyethylene glycol and ethylene glycol are very different compounds. In controlled amounts, polyethylene glycol is not harmful if ingested and is an ingredient in laxative medications. Ethylene glycol, by contrast, is very toxic and is best known for its use in antifreeze and deicer solutions.

**Polyethylene Glycol Vs. Ethylene Glycol | Sciencing**

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**Ethylene Glycol in Northern New Jersey (NJ) on ... - ThomasNet**

Safety Data Sheet (ETHYLENE GLYCOL 50% SOLUTION) PAGE 2 of 10 P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations.

**Safety Data Sheet (ETHYLENE GLYCOL 50% SOLUTION)**

SAFETY DATA SHEET Creation Date 02-Feb-2010 Revision Date 17-Jan-2018 Revision Number 4 1. Identification Product Name Ethylene glycol Cat No. : E177-4; E177-20 CAS-No 107-21-1 Synonyms Monoethylene glycol; 1,2-Ethanediol Recommended Use Laboratory chemicals. Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet

**SAFETY DATA SHEET - Fisher Scientific**

Material Safety Data Sheet. The handling of this chemical may incur notable safety precautions. It is highly recommend that you seek the Material Safety Datasheet for this chemical from a reliable source and follow its directions. Science Stuff

**Ethylene glycol (data page) - Wikipedia**

Inhalation: If ethylene glycol is heated or misted in work areas that are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea. Material has a very low vapor pressure at room temperature, so inhalation exposures are not expected unless material is heated or misted.

**Material Safety Data Sheet - Fisher Scientific**

An ethylene glycol solution contains 20.4 g of ethylene glycol C<sub>2</sub>H<sub>6</sub>O<sub>2</sub> in 82.5 mL of water. a/Compute the freezing point of the solution. (Assume a density of 1.00 g/mL for water. b/Compute the boiling point of the solution. (Assume a density of 1.00 g/mL for water.

**An ethylene glycol solution contains 20.4 g of ethylene ...**

For many heat-transfer applications it is necessary to use a heat-transfer fluid with lower freezing point than water. The most common antifreeze fluid - ethylene glycol - must not be used where there is a chance of leakage to potable water or food processing systems. In food processing systems the common heat-transfer fluid is based on propylene glycol.

**Propylene Glycol based Heat-Transfer Fluids**

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: central nervous system (CNS) depression, followed by

**Ethylene Glycol - US EPA**

All animals are susceptible to ethylene glycol (EG) toxicity, but it is most common in dogs and cats. Most intoxications are associated with ingestion of antifreeze, which is typically 95% EG. These 95% commercial antifreeze preparations are diluted ~50% with water when used in vehicle cooling systems.

**Overview of Ethylene Glycol Toxicity - Toxicology - Merck ...**

Glycol Heat-Transfer Fluids Ethylene Glycol versus Propylene Glycol Water is probably the most efficient heat-transfer fluid known. If it did not freeze, water would be the ideal heat-transfer fluid for cooling applications. When freeze conditions exist (<35 F), ethylene glycol and propylene glycol can be added to water to provide

**Glycol Heat-Transfer Fluids Ethylene Glycol versus ...**

mono-ethylene glycol (MEG), known as glycol, and the by-products di-ethylene glycol (DEG) and tri-ethylene glycol (TEG). Ethylene glycol is commonly used as an antifreeze agent in automobile cooling systems. It is also used in deicing solutions for aircraft and boats. Other uses include solvents for the paint and plastic industry, and hydraulic

**Process Analytics in Ethylene Oxide and Ethylene Glycol Plants**

A Guide to Glycols 10 Glycol-based solutions can give excellent burst protection across a wide range of cold temperatures as indicated in Figure 1. Consideration should be given to having appropriate expansion space for the solution and to the need for an inhibited glycol-based product such as DOWFROST\*,

**A Guide to Glycols - Dow**

Effect of temperature on volumetric and transport properties of ternary poly ethylene glycol di-methyl ether 2000+poly ethylene glycol 400+water and the corresponding binary aqueous solutions: Measurement and correlation

**Densities of Poly(ethylene glycol) + Water Mixtures in the ...**

Houghton now assists with propylene glycol disposal & ethylene glycol disposal. The inhibited glycol solution can be removed with a tanker truck. Drums or totes can be picked up or dropped off at our facility. Why use more than one vendor? You can now go to Houghton for glycol disposal, glycol removal and glycol deliveries.

**Glycol Disposal Archives - Houghton**

Ethylene Glycol 5 Responsible Care MEGlobal embraces and advocates Responsible Care®, a voluntary industry-wide commitment to safely handle our chemicals from inception in the laboratory to ultimate

**Product Guide - MEGlobal**

1,2-Ethanediol | CH<sub>2</sub>OHCH<sub>2</sub>OH or HOCH<sub>2</sub>CH<sub>2</sub>OH or C<sub>2</sub>H<sub>6</sub>O<sub>2</sub> | CID 174 - structure, chemical names,

physical and chemical properties, classification, patents, literature ...

## **Ethylene Glycol Solutions**

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