Ethylene Glycol Handling Guide

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Ethylene Glycol 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 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 ...

Ethylene Glycol Handling Guide - cdnx.truyenyy.com

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 cardiopulmonary effects, and later renal damage.

Ethylene Glycol - US EPA

Most ethylene glycol is consumed in the manufacture of polyester and polyethylene terephthalate (PET) resins, and antifreeze and coolant fluids.2Ethylene glycol is also used as a deicing fluid, a chemical intermediate for solvent production and a solvent coupler.3MEGlobal has identified numerous non-recommended uses for Ethylene Glycol which can be accessed at their web site at www.meglobal.biz/non-supported-applications.

Product Safety Assessment Ethylene Glycol

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 ...

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

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

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 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

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

Reading ethylene glycol handling guide is a good habit; you can build this need to be such engaging way. Yeah, reading obsession will not lonesome create you have any favourite activity. It will be one of guidance of your life. gone reading has become a habit, you will

Ethylene Glycol Handling Guide - thebrewstercarriagehouse.com

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 tox-icity is a concern, propylene glycol

Engineering and Operating Guide for DOWFROST and DOWFROST ...

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

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 ...

Ethylene glycol's high boiling point and affinity for water makes it an ideal desiccant for natural gas production. In the field, excess water vapor is usually removed by glycol dehydration. Ethylene glycol flows down from the top of a tower and meets a rising mixture of water vapor and hydrocarbon gases from the bottom.

Ethylene_glycol - chemeurope.com

Ethylene glycol dinitrate. Related Pages. Synonyms & Trade Names EGDN, 1,2-Ethanediol dinitrate, Ethylene dinitrate, Ethylene nitrate, Glycol dinitrate, Nitroglycol CAS No. 628-96-6 RTECS No. KW5600000. DOT ID & Guide. Formula. ...

CDC - NIOSH Pocket Guide to Chemical Hazards - Ethylene ...

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

Product Comparison Guide. Ethylene glycol. 13 Products. Synonym: 1,2-Ethanediol CAS Number: 107-21-1. Linear Formula: HOCH 2 CH 2 OH. Molecular Weight: 62.07 . Beilstein/REAXYS Number: 505945 ... Ethylene glycol,

Pharmaceutical Secondary Standard; Certified Reference Material, 1265515: Ethylene glycol, United States Pharmacopeia (USP) Reference ...

Ethylene glycol | Sigma-Aldrich

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.