

TEK ELC ANTIFREEZE – 100, 50/50

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Use: Automotive coolant system (antifreeze/anticorrosion).

Product Number(s): TEK20028, TEK20029

Synonyms: TEK ELC ANTIFREEZE – 100, 50/50

Company Identification : PORT CONSOLIDATED INC.
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SECTION 2: COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	%by weight	Exposure limits
Ethylene Glycol	107-21-1	45-47	ACGIH TLV (United States, 2002). CEIL: 100 mg/m ³ CEIL: 100 mg/m ³ Form: Aerosol OSHA PEL 1989 (United States, 3/1989). CEIL: 125 mg/m ³ Form: All forms CEIL: 50 ppm Form: All forms
Diethylene glycol	111-46-6	0-2.5	None assigned.
Water	7732-18-5	50	None assigned.

SECTION 3: HAZARDS IDENTIFICATION

Physical state: Liquid.

Color: Red.

Emergency overview: WARNING!. HARMFUL IF SWALLOWED. SLIGHTLY IRRITATING TO THE EYES.

Prolonged or repeated contact can defeat the skin and lead to irritation and/or dermatitis.

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling.

Routes of entry: Skin contact. Eye contact. Inhalation. Ingestion.

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SECTION 4: FIRST AID MEASURES

Eye: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Ingestion: If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

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

Note to Physicians: Gastric lavage is indicated if significant quantities have been ingested in the previous 4 hours. The metabolism of the glycol to oxalic acid may be delayed by the intravenous administration of ethanol (give as a 5% solution in physiological saline to maintain a blood level of 1-2mg/ml). This has been shown to be an effective antidote provided treatment is started within about 6 hours of exposure. The glycol may be removed by dialysis but oxalates are not readily removed..

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the product: May be combustible at high temperature.

Products of combustion: These products are carbon oxides (CO, CO₂).

Unusual fire/explosion hazards: This material is not explosive as defined by established regulatory criteria.

Firefighting media and instructions: In case of fire, use water fog, foam, dry chemicals, or carbon dioxide. Do not use water jet.

Protective clothing (fire): Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

Special remarks on fire hazards: Containers may rupture from pressure build-up.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities as appropriate or required.

SECTION 7: HANDLING AND STORAGE

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling.

General Handling Information: Do not taste or swallow antifreeze or solution. Keep out of the reach of children and animals.

Storage: Do not store in open or unlabeled containers. Store only in approved containers.

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Container Warnings: Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

Ethylene glycol	ACGIH TLV (United States, 2002). CEIL: 100 mg/m ³ CEIL: 100 mg/m ³ Form: Aerosol OSHA PEL 1989 (United States, 3/1989). CEIL: 125 mg/m ³ Form: All forms CEIL: 50 ppm Form: All forms
DIETHYLENE GLYCOL	None assigned.
Water	None assigned.

ENGINEERING CONTROLS:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Control Measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protection:

Eyes: Chemical splash goggles.

Skin and Body: Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Respiratory: Use with adequate ventilation. Avoid breathing vapor or mist. If ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

Hands: Wear gloves that cannot be penetrated by chemicals or oil. (PVC, neoprene, Rubber gloves.)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Red

Physical State: Liquid

Odor: Faint or Mild

pH: 8.6 (Basic.)

Boiling Point: 106 to 108 °C

Melting point / Range: -37 °C

Solubility: Easily soluble in cold water, hot water.

Specific Gravity: 1.07

Volatility: 50% v/v

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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Hazardous Polymerization Not expected to occur.

Conditions to Avoid: High temperatures. Keep away from water.

Materials Incompatibility: Strong oxidizers. Slightly reactive to reactive with acids, moisture. Hygroscopic; keep container tightly closed.

Hazardous Decomposition Products: carbon oxides (CO, CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: May be fatal if swallowed. Contains material which causes damage to the following organs: kidneys. Ingestion may cause nausea, weakness and central nervous system effects. May cause convulsions. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility.

Ingredient name	Test	Result	Route	Species
Ethylene glycol	LD50	5890 mg/kg	Oral	Rat
	LD50	13400 mg/kg	Oral	Rat
	LD50	10600 mg/kg	Dermal	Rabbit
DIETHYLENE GLYCOL	LD50	12565 mg/kg	Oral	Rat
	LD50	4400 mg/kg	Oral	Rabbit
	LD50	11890 mg/kg	Dermal	Rabbit

Chronic toxicity

Carcinogenic effects: No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenic effects: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive effects: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

Teratogenic effects: No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material.

ENVIRONMENTAL FATE

Ready Biodegradability: This material is expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

Mobility: Spillages may penetrate the soil causing ground water contamination.

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Soil/water partition coefficient (KOC): This product is not likely to partition to organic material in the environment because its Log (Kow) is: -1.36

Bioaccumulative potential: This product shows a low bioaccumulation potential.

Other ecological information: Miscible in water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste from Residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

Contaminated Packaging: No consideration given when disposed of according to local, state, and Federal regulations.

SECTION 14: TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)

TDG Classification: Not Regulated.

IMO/IMDG Shipping Description: MAY BE REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER THE IMDG CODE

ICAO/IATA Shipping Description: Anti-freeze Preparations, Proprietary; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations US INVENTORY (TSCA): In compliance.
This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 313

Product name	CAS number	Concentration
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Form R - Reporting requirements

Ethylene glycol	107-21-1	45 - 47
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Supplier notification

Ethylene glycol	107-21-1	45 - 47
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CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4)::
Ethylene glycol: 5000 lbs. (2268 kg);

State regulations Massachusetts RTK:Ethylene glycol

New Jersey:Ethylene glycol

Pennsylvania RTK:Ethylene glycol (environmental hazard, generic environmental hazard);

DIETHYLENE GLYCOL (generic environmental hazard)

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SECTION 16: OTHER INFORMATION

NFPA RATINGS: Health: 2 Flammability: 1 Reactivity: 0

HMIS RATINGS: Health: 2* Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Date of issue: 01/01/2014

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