

MATERIAL SAFETY DATA SHEET

SECTION I
PRODUCT IDENTIFICATION

Chemical Product and Company Identification

Product Trade Name:
 Product Name: Ethylene Glycol Solution or Compound, (ELCH/D)
 General identification or generic identification: Antifreeze or Coolant
 MSDS # 10002

Manufactured and Distributed by: **Industrial Recycling Solutions**
 2610 West Holly Street #C
 Phoenix, AZ 85009-2600
 Phone: 602-268-4022 Fax: 623-979-9058
 Emergency phone: Chemtrec 800-424-9300
 Mailing Address: P O Box 878, Peoria, AZ 85380-0878

SECTION II
INGREDIENTS

Ingredient	CAS #	Composition %	PEL/TLV
Ethylene Glycol	107-21-1	40 - 95%	125 mg/m
Diethylene Glycol	111-46-4	0-10%	ND
Propylene Glycol	57-55-6	0-10%	ND
Additives/Sodium Salts/Organic acid	Proprietary	3-10%	ND
Water	7732-18-5	Balance	None

Subject to reporting requirements of SARA 313 and 40 CFR 372

Section III
Physical Data

Boiling Point: 50% Between (BT) 212F and 230F; Concentrate: (BT) 310F and 350F
 Specific Gravity @ 60F: BT 1.110 and 1.145
 Solubility in water: Complete
 pH: BT 7.0 and 11.0
 Evaporation rate: Not Determined (ND)
 Physical state: Liquid
 Appearance: blue/green; pink/red; orange/red
 Vapor density: ND
 Vapor pressure: ND

Section IV
Reactive Information

Stability : Stable
Compatible with : Strong oxidizers, strong acids, strong bases,
Avoid : Extreme heat, open flame
Hazardous decomposition : Carbon monoxide, carbon dioxide, and oxides of nitrogen

Section V
Health Considerations

General: Harmful or fatal if swallowed. Breathing concentrations of vapors have been reported to effect the nervous and blood forming systems.

Ingestion: Harmful or fatal if swallowed. May cause abdominal irritation, nausea, vomiting and diarrhea. May cause reproductive disorder. Target organs are kidneys, liver and central nervous system.

Skin contact: Irritant.

Eye contact: Irritant

Inhalation: High concentrations of warm to hot mist (as in leaning over open radiator with hot antifreeze) May cause blood-forming disorders and effect the nervous system.

May cause reproductive disorders.

Section VI
Occupational Exposure Limits

Permissible Exposure Limit (PEL): None established for mixture

Threshold Limit Value (TLV): None established for mixture

Section VII
First Aid

Eyes: Flush with water for 15 minutes, get medical attention.

Skin: Flush with large amounts of water for 15 minutes while removing contaminated shoes and clothing.

Vapors (breathing): Remove to fresh air. If experiencing breathing difficulty, give oxygen. If breathing stops, give artificial respiration. Get medical attention.

Swallowing: If conscious - give two glasses of water or milk. CALL POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY. Do NOT induce vomiting without consulting physician. Do NOT give fruit juice, vinegar or sodium bicarbonate.

○ Unconscious or having convulsions SEEK MEDICAL HELP IMMEDIATELY.

Section VIII Handling and Storage

Store and handle in a well-ventilated area. Do not breathe concentrated mist. Wear gloves and footwear impervious to solvents. Wear safety glasses. Clean water should be available at the work area for flushing.

Store in a well-ventilated area, with all fittings tight, away from heat.

Section IX Fire Fighting Measures

Flash Point: greater than 230 F

Auto ignition: ND (believed to be greater than 700F)

Extinguishing media: Class B extinguisher, Co2, dry chemical powder or foam

Emits Toxic Fumes when on fire. Wear self-contained breathing apparatus.

Section X Spill or Leakage Measures

○ Isolate area; evacuate personnel use appropriate NIOSHA respirator. Block sewers; do not let into surface water. Dike spill. Spill can be absorbed with sand, clay, mop or other absorbents. Try to absorb with mop and place in used antifreeze container.

Consult local authorities for proper disposal of absorbents.

Section XI Transportation

Antifreeze is a non-regulated product per DOT regulation.

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