



# Safety Data Sheet

Rev. Date: 01/14/2015

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### Dyna-Plex 21C Extended Drain Anti-Freeze and Engine Coolant

Premix Ethylene Glycol based Antifreeze/Engine Coolant  
Mixture  
Product Code: K090

Universal Lubricants, LLC  
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1-800-444-6457 Telephone  
1-316-832-3627 Product Information telephone  
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## 2. HAZARDS IDENTIFICATION

**Physical Hazards:** Not classified

**Health Hazards:** Acute Toxicity, Oral Category 5  
Specific Target Organ Toxicity-Repeated Exposure Category 2

**Signal Word:** WARNING

**Hazard Statement:** H303 May be harmful if swallowed  
H373 May cause damage to kidneys through prolonged or repeated exposure

**GHS Symbol:**



GHS08

## Precautionary Statements

**Prevention:** P260 Do not breathe mist or vapors

**Response:** P314 Get medical attention if you feel unwell  
P312 Call a POISON CENTER or doctor/physician if you feel unwell

**Storage:** Not applicable

**Disposal:** P501 Dispose of contents/container with compliance to federal, state and local regulations. Contact Universal Lubricants for proper disposal options

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Premix Ethylene Glycol based Antifreeze/Engine Coolant

**Formula:** Mixture

**Molecular Weight:** Variable

Component	CAS Number	Concentration %
Monoethylene Glycol	000107-21-1	45
Diethylene Glycol	000111-46-6	<5
Water	007732-18-5	50
Additives and Inhibitors – Trade Secret		<5
Sodium Tetraborate Pentahydrate	001303-96-4	<1.5
Purple Dye		<1

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## 4. FIRST AID MEASURES

### Eyes

May cause minimal irritation, temporary discomfort, flush with water if needed.

### Inhalation

Mist or vapors, in excess of unusually high concentrations generated from spraying, heating or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache nausea and drowsiness. Remove to fresh air and restore and/or support breathing as required. If breathing is difficult, seek medical attention.

### Skin

Brief skin contact is not irritating. Remove contaminated clothing. Rinse with soap and water, if irritation persists, seek medical attention.

### Ingestion

Contains Ethylene Glycol and/or diethylene Glycol, which are toxic when swallowed. A lethal dose for an adult is 1-2 ml per kilogram, or about 4 ounces (one-half cup). Ingestion may cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, back pain, decreased urine output, kidney failure, and central nervous system effects. Seek immediate medical attention for large ingestions.

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## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Use any media appropriate for surrounding the fire.

### Specific hazards from combustion

Solid stream of water or foam directed into hot, burning liquid can cause frothing. Burning may produce carbon monoxide and carbon dioxide.

### **Special protective equipment for fire-fighters**

Wear full firefighting turn-out gear (full bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Cool fire exposed containers with water spray and avoid spreading burning material with water used for cooling purposes.

### **NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

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## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions and Protective equipment**

Personal Protection, see section 8. Any individual not wearing protective equipment should not enter spill or contaminated area until all clean-up has been completed.

### **Emergency procedures**

For personal emergency procedures see section 4. For fire emergency procedures see section 5. Contain spilled liquid if possible without posing any risk or personal injury.

### **Environmental precautions**

Prevent spreading over a wide area. Contain spill immediately. Contact appropriate authorities of spill. Do not allow spill to enter sewer system, drains of any kind, surface water or water courses. Avoid flushing to such areas as well.

### **Methods and materials for containment and cleaning up**

Soak up or absorb with appropriate inert materials such as, sand, clay, silica gel, acid binder, universal binder, sawdust, paper fiber etc. Large spills may be picked up using vacuum pumps, shovels, buckets or other means of transfer and placed into drums or any other approved and suitable containers.

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## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

This product is not classified as a Hazardous Material under DOT regulations. See NFPA 30 and OSHA 1910.106 flammable and combustible liquids. Harmful or Fatal if swallowed.

### **Conditions for safe storage**

Store in only approved and marked containers. Store in a cool, dry ventilated area. Keep containers closed when not in use and during transportation. Keep containers away from flame or other ignition sources.

## **Incompatibilities**

Store away from strong oxidizing agents and excessive heat.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **OSHA Final: (PEL)**

Contains no substances with occupational exposure limit values.

### **American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)**

50 ppm ceiling limit value, not to exceed during any part exposure for Ethylene Glycol.

### **Respiratory protection**

If vapor mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Fit testing may be required before use. Adequate ventilation in accordance with good engineering practices must be provided to maintain concentrations below the specified exposure or flammable limits.

### **Hand protection**

For prolonged or repeated exposures hand protection is required. Wear resistant gloves suitable for the product, contact your safety department or supplier to determine the proper hand protection.

### **Eye protection**

Not required under normal conditions of use. If material is handled such that it could be splashed or misted into eyes, wear plastic face shield or splash resistant safety goggles or glasses with side shields.

### **Skin and body protection**

For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, bibs, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing. Launder soiled clothes, do not reuse contaminated clothing. Proper dispose of contaminated clothing or articles that cannot be laundered such as leather gloves, boots, etc. If skin irritation develops, contact your facility safety department or safety supplier to determine the proper protective equipment for your use.

### **Hygiene measures**

Do not use contaminated clothing, launder clothing before reuse. Wash contaminated areas of the body which may have been exposed with soap and water. Wash thoroughly before handling food and beverages. Food and beverage consumption should be avoided in work areas where Ethylene Glycol is present.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Purple liquid

**Physical state:** Liquid

**Odor:** Sweet

**Specific gravity (H<sub>2</sub>O=1):** 1.04-1.08 @ 60°F

**Melting point/freezing point:** -34°F, (-36°C)

**Initial boiling point and boiling range:** 330°F, (166°C)

**Flash point (C.O.C):** 119°C, (247°F) (Setaflash)

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** <0.1 mmHg @ 68°F

**Solubility in water:** Completely miscible

**Percent volatile:** Negligible

**Vapor density:** >1

**Evaporation rate:** Not determined

**Autoignition Temperature:** 413°C, (775°F) approx.

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## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Product will not undergo hazardous polymerization.

**Conditions to avoid:** Heat, open flames, oxidizing materials and mist.

**Incompatible materials:** May react strong with oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide and water

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## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity:** Swallowing large amounts can cause kidney damage and/or failure.

**Acute inhalation toxicity:** Mist and poor ventilation may cause nose and throat irritation.

Ethylene Glycol: LD50 Oral Rat: 4700 mg/kg, LD50 Skin Rabbit: 9530 mg/kg

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## 12. ECOLOGICAL INFORMATION

**Biodegradability:** Ethylene Glycol is readily biodegradable (97-100% in 2-12 days)

**Bioaccumulation:** No data available

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Toxicity to bacteria:** No data available

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## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal methods

All disposals must comply with federal, state and local regulations. Spilled or discarded material may be a regulated waste. Refer to state and local regulations. If other material was used during cleanup efforts the resultant mixture may be regulated. Department of Transportation regulations may apply for transporting of this material. Contact Universal Lubricants regarding proper recycling and disposal methods.

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## 14. TRANSPORT INFORMATION

<b>UN number:</b>	(Non-Bulk Shipments)	Not dangerous/hazardous goods
<b>UN proper shipping name:</b>		Not dangerous/hazardous goods
<b>Transport hazard class:</b>		Not dangerous/hazardous goods
<b>Packing group:</b>		Not dangerous/hazardous goods
<b>Environmental hazards:</b>		Not dangerous/hazardous goods
<b>U.S. DOT Road/Rail/Waterways:</b>		Not dangerous/hazardous goods
<b>Transport Canada Road/Rail/Waterways:</b>		Not dangerous/hazardous goods
<b>International Maritime Dangerous Goods:</b>		Not dangerous/hazardous goods

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## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

## Federal Regulatory Status

### Notification Status

**EINECS** All components listed

**DSL** All components listed

**TSCA** All components listed

### SARA Hazard Categories (311/312)

Title III: Ethylene Glycol, An immediate health hazard A delayed health hazard

**Canadian WHMIS:** Class D-Division 2-Subdivision B: toxic material causing other toxic effects

### State Regulatory Status

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### NFPA Hazard Classification

Health: 2

Flammability: 1

Reactivity: 0

#### HMIS Classification

Health: 2

Flammability: 1

Physical Hazards: 0

Personal Protection:



<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	

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## 16. OTHER INFORMATION

The information accumulated herein is believed to be accurate. However, neither Universal Lubricants, LLC nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information provided herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.