

# Deluxe Testing Equipment Inc.

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT IDENTIFICATION

**Chemical Name:** Propylene Glycol n-Propyl Ether  
**Trade Name:** Arcosolv® PNP  
**DTE Part No.:** D001281G  
**Chemical Family:** Aliphatic Propylene Glycol Ethers  
**Formula:**

### SECTION 2 - HAZARDOUS CONSTITUENTS

<u>CAS #</u>	<u>CHEMICAL NAME</u>	
1569-01-3	1-Propoxy-2-Propanol	90.0%
10215-30-2	2-Propoxy-1-Propanol	7.0%
57-55-6	Propylene Glycol	5.0%
25265-71-8	Dipropylene Glycol	5.0%
29911-27-1	Dipropylene Glycol Monopropyl Ether	5.0%

### SECTION 3 - PHYSICAL PROPERTIES

**Appearance / Odor:** Colorless, Oily Liquid / Mild Odor  
**Solubility:** Complete (In all Proportions)  
**Specific Gravity** 0.89 @ 68 °F (20 °C)  
**pH:** No Data Available  
**% Volatiles by Vol.:** Not Available  
**Melting Point:** No Information Found  
**Boiling Point:** 302 °F (150 °C)  
**Vapor Density (Air=1)** 4.0  
**Vapor Pressure (mmHg)** 1.7 @ 68 °F (20 °C)

### SECTION 4 - FIRE, EXPLOSION AND REACTIVITY

**Fire:** Flash Point: 119 °F (48 °C) CC, Auto Ignition Temperature: 1139 °F (615 °C)  
Flammable Limits in Air % by Volume: lcl 1.3, ucl 16.9. Flammable when Exposed to Heat or Flame.

**Explosion:** Above Flash Point, Vapor-Air Mixtures are Explosive Within Flammable Limits noted Above. Sealed Containers may Rupture when Heated.

**Fire Extinguishing Media:** Dry Chemical, Alcohol Resistant Foam, Carbon Dioxide.

**Special Information:** In the Event of Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Face piece Operated in the Pressure Demand or Other Positive Pressure Mode. Use Water Spray to Blanket Fire, Cool Fire Exposed Containers, and to Flush Non-Ignited Spills or Vapors Away From Fire.

**General Reactivity:** Stable Under Ordinary Conditions of Use and Storage.

**Hazardous Decomposition:** Burning may Produce Carbon Monoxide, Carbon Dioxide and other Toxic Gases.

**Incompatibilities:** Strong Bases.

**Hazardous Polymerization:** Will Not Occur.

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### SECTION 5 - HEALTH HAZARD INFORMATION

<b>Inhalation:</b>	Overexposure may Cause Coughing, Shortness of Breath Dizziness, Intoxication and Collapse.
<b>Ingestion:</b>	May Cause Moderate Irritation of the Mouth, Throat, Esophagus and Stomach, with Abdominal and Chest Discomfort.
<b>Skin:</b>	Exposure to this Material can Result in Absorption Through Skin Causing a Significant Health Hazard.
<b>Eye Contact:</b>	Liquid Vapor, and Mist May Cause Discomfort in the Eye with Persistent Conjunctivitis, Seen as Slight Excess Redness of Conjunctiva. Serious Corneal Injury in Not Anticipated.
<b>Chronic Exposure:</b>	Repeated or Prolonged Skin Contact may Cause Progressive Dermatitis and may Aggravate Pre-Existing Dermatitis. Repeated or Prolonged Exposure to Vapors may Aggravate Asthma and Other Respiratory Conditions. Overexposure may Cause In-coordination of Movements, Speech Difficulties, Headache, Loss of Consciousness and Possible Liver and Kidney Damage.
<b>Carcinogenic References:</b>	NTP Carcinogen - Known: No, IARC Category- None
<b>Aggravated by Exposure:</b>	This Material or its Emissions may Affect the Central Nervous System (CNS) and/or Aggravate Pre-Existing CNS Disorders. Prolonged Observation may be Indicated.

### SECTION 6 - EMERGENCY & FIRST AID PROCEDURES

<b>Inhalation:</b>	If Inhaled, Remove to Fresh Air. If not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Do Not Give Mouth to Mouth Resuscitation. <b>Call A PHYSICIAN IMMEDIATELY.</b>
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. If Swallowed, Give Lukewarm Water (1/2 liter/pint) if Victim Completely Conscious/Alert. Risk of Damage to Lungs Exceeds Poisoning Risk. Obtain Emergency Medical Attention.
<b>Skin:</b>	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 Immediately.
<b>Eyes:</b>	Immediately Flush Eyes with Plenty of Water for at Least 20 to 30 Minutes, Lifting Upper and Lower Eyelids Occasionally. Get Medical Attention Immediately.

### SECTION 7 - HANDLING AND STORAGE

<b>Ventilation System:</b>	A System of Local and/or General Exhaust is Recommended to Keep Employee Exposures below the Airborne Exposure Limits. Local Exhaust Ventilation is Generally Preferred because it can Control the Emissions of the Contaminant at its Source, Preventing Dispersion of it into the General Work Area.
<b>Airborne Exposure Limits:</b>	No Information Found.
<b>Personal Respirators: (NIOSH APPROVED)</b>	Where Exposure Through Inhalation may Occur From Use. NIOSH/MSHA Approved Respiratory Protection Equipment is Recommended.
<b>Skin Protection:</b>	When Skin Contact is Possible, Protective Clothing Including Gloves, Apron, Sleeves, and Boots. Head and Face Protection Should be Worn. The Equipment Must be Cleaned Thoroughly After Each Use.
<b>Eye Protection:</b>	Use Chemical Safety Goggles and/or a Full Face Shield where Splashing is Possible. Maintain Eye Wash Fountain and Quick-Drench Facilities in Work Area.

### SECTION 8 - INDUSTRIAL HYGIENE MEASURES

<b>Accidental Release:</b>	Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 7. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container.
<b>Disposal:</b>	Do Not Use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air.
<b>Environmental Fate:</b>	When Released to the Soil and Water, this Material may Evaporate to Moderate Extent. When Released into the Soil, This Material may Leach into Groundwater. When Released into the Water, This Material is Expected to have a Half Life Between 1 and 10 Days.

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**SECTION 9 - SPECIAL PRECAUTIONS**

**Handling and Storage:** Keep in a Tightly Closed Container, Stored in a Cool, Dry, Ventilated Area. Protect against Physical Damage and where a Fire Hazard May be Acute. Storage and Use should be No Smoking Areas. Do Not Pressurize, Cut, Weld, Braze, Solder, Drill, Grind or Expose Containers to Heat, Sparks, Flame, Static Electricity or Other Sources of Ignition. Containers of this Material may be Hazardous when Empty since they Retain Product Residues.

**SECTION 10 - DOT SHIPPING REQUIREMENTS**

**Shipping Name:** Flammable Liquids, N.O.S. (Propylene Glycol Normal-Propyl Ether)  
**Hazard Class:** 3  
**Identification No.:** UN1993, Packing Group: III  
**NFPA Rating:** HEALTH-1, FLAMMABILITY-2, REACTIVITY-0

**SECTION 11 - IN CASE OF EMERGENCY**

**For Spills, Leaks, Fire, Exposure or Accident:** In the USA, Call INFOTRAC at 1-800-535-5053 Day or Night  
Outside the USA, Call Collect, (352) 323-3500