



## Electronic Air Cleaner Liquid Detergent

### ENGINEERED SOLUTIONS FOR CLEAN AIR

Tri-Dex is a heavy duty, concentrated alkaline liquid detergent formulation developed specifically for removal of stubborn airborne deposits that coat exposed ionizing/collecting elements of electronic air cleaners. Deposits to be removed include tars from tobacco smoke, dirt, grease, dust and other tenacious particulate matter which ordinarily are difficult to penetrate and make soluble with other common commercial detergents.

### APPLICATIONS

- Electronic Air Cleaners
- Air Conditioning Coils
- Aluminum Parts
- Pre-filters
- Range Hoods, Fans
- Registers, Dampers, Floors
- Stoves, Ovens, Grills

### APPLICATION GUIDELINES

<i>Detergent:</i>	<i>Used For:</i>
Tri-Dex ESP 1000	General Purpose Cleaning
Tri-Dex ESP 5000	Difficult Cleaning
Tri-Dex ESP 9000	Heavy Duty Cleaning

### HOW IT WORKS

An electronic air cleaner is designed to trap airborne particulate matter as it passes through a series of alternately charged aluminum plates. Periodically, these collecting components must be washed to remove these deposits so the air cleaner can continue to operate at designed efficiencies. Some small ionizing/collecting cells may be removed for periodic manual cleaning; however, most modular ionizing collecting cells for commercial, industrial, and marine air cleaners are designed with integral washing systems. Typically, a metered flow of liquid detergent and hot water is added during this cleaning cycle.



### FEATURES / BENEFITS

- Freeze-thaw stable
- Reasonable low foaming
- Effective in hard or soft water
- Suspends residue, carbon black soots, talc, clay dusts and particulates
- Economical to use
- Good rinsing characteristics
- Buffered and triple inhibitor system for brass and aluminum surfaces
- Safe handling characteristics
- Stable when used with hot or cold water
- Fast acting in penetrating, lifting and dispersing deposits
- Emulsifies oils and carbonized tars, grease and chemical residues
- No adverse corrosive effects to air cleaning equipment

**TRION**<sup>®</sup>  
air purification systems

Specifications	Tri-Dex ESP 1000	Tri-Dex ESP 5000	Tri-Dex ESP 9000
Appearance:	Yellow Liquid	Blue Liquid	Red Liquid
Odor:	Neutral	Neutral	Neutral
Specific Gravity:	1.04 - 1.05	1.04 - 1.05	1.06 - 1.07
PH of 1% Solution	11-12.5	11-12.5	11-12.5
Weight per Gallon:	8.6 - 8.8 lbs.	8.6 - 8.8 lbs.	8.8 - 9.0 lbs.
Biodegradability:	Superior	Superior	Superior
Solubility in Water:	Complete	Complete	Complete
Waste Water Disposal:	IAW Federal, State, Local codes	IAW Federal, State, Local codes	IAW Federal, State, Local codes
Stability:	Stable	Stable	Stable
Storage:	Cool, Dry Place, Sealed	Cool, Dry Place, Sealed	Cool, Dry Place, Sealed
Freight Class:	Cleaning, Scouring and Washing Compound	Cleaning, Scouring and Washing Compound	Cleaning, Scouring and Washing Compound

## Methods of Use

Due to the varying types and amounts of soil loading, cleaning procedures vary from application to application. Therefore, some trial and error may be required to establish optimum cleaning procedures.

Generally, washing with hot, high pressure water (not to exceed 150°F) and Tri-Dex produces best results. Recommended use is to dilute Tri-Dex with water in a range from one part ESP detergent to 10-20 parts of water.

Where deposits are particularly heavy and tenacious, a concentrated solution of one part detergent to five parts water can be initially applied to wet and penetrate deposits. This solution should be allowed to remain from two to ten minutes followed with clear water rinse. Where available, use of hot water and high pressure cleaning equipment is required for optimum cleaning efficiency.

**CAUTION:** Tri-Dex contains strong alkaline silicates. Concentrated Tri-Dex may cause skin irritation or damage to eyes. It is harmful if swallowed. Therefore, avoid contact with clothing, skin and eyes and do not take internally. In case of contact with skin, flush exposed surface immediately with water for 15 minutes and get immediate medical attention. If swallowed, drink large quantities of water or milk. Call physician immediately. **KEEP OUT OF REACH OF CHILDREN.**

Tri-Dex ESP Application Guide	1000	5000	9000
<b>Clean-In-Place Wash System:</b>			
Light Grease/Soil	•		
Heavy Grease/Soil		•	
Baked-on Grease/Soil			•
Dusts, Welding Fumes	•		
Tobacco Smoke/Tar Residues		•	
Environment Air Contaminates	•		
Wood Smoke & Residues			•
<b>Soak Tank:</b>			
Light Grease/Soil	•		
Heavy Grease/Soil	•		
Baked-on Grease/Soil		•	
Dusts, Welding Fumes	•		
Tobacco Smoke/Tar Residues	•		
Environment Air Contaminates	•		
Wood Smoke & Residues		•	
<b>Manual or Brush Cleaning:</b>			
Light Grease/Soil	•		
Heavy Grease/Soil		•	
Baked-on Grease/Soil		•	
Dusts, Welding Fumes	•		
Tobacco Smoke/Tar Residues		•	
Environment Air Contaminates	•		
Wood Smoke & Residues		•	



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Air Purification Systems

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