

NU-CALGON CHEMICAL PRODUCTS

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Expert Service. Quality Products. Since 1960.

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COIL CLEANERS

SELECTION GUIDE

Equipment Used On

| | CONDENSER COILS | EVAPORATOR COILS | PERMANENT FILTERS | ELECTRONIC AIR FILTERS | SMALL CONDENSER COILS | SMALL EVAPORATOR COILS | FAN BLADES, MOTORS, ETC |
|----------------------------|-----------------|------------------|-------------------|------------------------|-----------------------|------------------------|-------------------------|
| Evap Pow'r-C | | ✓ | | | | ✓ | |
| Nu-Brite | ✓ | | | | ✓ | | |
| Evap Foam No Rinse | | ✓ | ✓ | | | ✓ | ✓ |
| Foam-Brite | ✓ | | | | ✓ | | |
| Aerosol Evap-Fresh | | ✓ | ✓ | | | ✓ | ✓ |
| Alka-Brite Plus | ✓ | | | | ✓ | | |
| Evap-Fresh | | ✓ | ✓ | | | ✓ | ✓ |
| Cal-Brite | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Tri-Pow'r HD | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| CalClean Special HD | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Green Clean | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Aerosol CalClean | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bio-Fresh CD | | ✓ | | | | ✓ | |
| CalClean | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Cal-Shield | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Nu-Blast | ✓ | | ✓ | | ✓ | | ✓ |
| Eco-Friendly Evap-Green | | ✓ | ✓ | | | ✓ | ✓ |
| Eco-Friendly Cal-Green | ✓ | | ✓ | | ✓ | | ✓ |

Formulated to Remove

| | GREASY DIRT AND OIL | COOKING GREASE | DIRT AND GRIME | TOBACCO TARS | LINT, DUST | OXIDE (CORROSION) DEPOSITS | COTTON-WOOD/BUGS |
|----------------------------|---------------------|----------------|----------------|--------------|------------|----------------------------|------------------|
| Evap Pow'r-C | ✓ | | ✓ | | ✓ | | |
| Nu-Brite | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Evap Foam No Rinse | ✓ | | ✓ | | ✓ | | |
| Foam-Brite | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Aerosol Evap-Fresh | ✓ | | ✓ | | ✓ | | |
| Alka-Brite Plus | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Evap-Fresh | ✓ | | ✓ | | ✓ | | |
| Cal-Brite | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Tri-Pow'r HD | ✓ | | ✓ | | ✓ | | |
| CalClean Special HD | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Green Clean | ✓ | | ✓ | | ✓ | | |
| Aerosol CalClean | ✓ | | ✓ | ✓ | ✓ | | ✓ |
| Bio-Fresh CD | | | | | | | |
| CalClean | ✓ | ✓ | ✓ | | ✓ | | ✓ |
| Cal-Shield | | | | | | | |
| Nu-Blast | ✓ | ✓ | ✓ | | ✓ | | |
| Eco-Friendly Evap-Green | ✓ | | ✓ | | ✓ | | |
| Eco-Friendly Cal-Green | ✓ | | ✓ | | ✓ | | |

(cont'd on next page)

– E.&O.E. – All Prices F.O.B. Our Warehouse – Subject to Change Without Notice – All Taxes Extra – May not be Available at All Branches –

NU-CALGON CHEMICAL PRODUCTS

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COIL CLEANERS (cont'd)

SELECTION GUIDE (cont'd)

Features and Benefits

| | PRODUCT TYPE | FOAMING | BRIGHT-ENING | DE-GREASING | DIS-INFECTANT | NON-RINSING | COIL PROTECTION | BIO-DEGRADABLE | USDA AUTHORIZED | EPA REGISTERED |
|----------------------------|--------------|---------|--------------|-------------|---------------|-------------|-----------------|----------------|-----------------|----------------|
| Evap Pow'r-C | Alkaline | | | | | ✓ | | ✓ | ✓ | |
| Nu-Brite | Alkaline | ✓ | ✓ | ✓ | | | | ✓ | ✓ | |
| Evap Foam No Rinse | Alkaline | ✓ | | | | ✓ | | ✓ | | |
| Foam-Brite | Alkaline | ✓ | ✓ | ✓ | | | | ✓ | | |
| Aerosol Evap-Fresh | Alkaline | ✓ | | | ✓ | ✓ | | ✓ | | ✓ |
| Alka-Brite Plus | Alkaline | ✓ | ✓ | ✓ | | | | ✓ | | |
| Evap-Fresh | Alkaline | | | | ✓ | ✓ | | ✓ | | ✓ |
| Cal-Brite | Acidic | ✓ | ✓ | ✓ | | | | ✓ | | |
| Tri-Pow'r HD | Alkaline | | | ✓ | | ✓* | | ✓ | | |
| CalClean Special HD | Alkaline | | | ✓ | | ✓* | | ✓ | ✓ | |
| Green Clean | Alkaline | | | ✓ | | | | ✓ | | |
| Aerosol CalClean | Alkaline | ✓ | | ✓ | | | | ✓ | ✓ | |
| Bio-Fresh CD | Bacteriostat | | | | | ✓ | | ✓ | | ✓ |
| CalClean | Alkaline | | | ✓ | | ✓* | | ✓ | ✓ | |
| Cal-Shield | Protectant | | | | | ✓ | ✓ | ✓ | | |
| Nu-Blast | Solvent | | | ✓ | | ✓ | | | | |
| Eco-Friendly Evap-Green | Alkaline | | | | | ✓ | | ✓ | | |
| Eco-Friendly Cal-Green | Alkaline | | | | | | | ✓ | | |

* Dilution ratios for no rinse applications: Tri-Pow'r HD= 10:1, CalClean Special HD= 40:1, CalClean= 10:1

NOTE: For product not shown on the following pages, contact your ECCO Supply Sales Representative.

NU-BRITE®

Nu-Brite is the most effective coil cleaner available today. It foams, brightens, and is an equally effective yet safer alternative to HF acid-based products. It produces a high volume of foam that cleans more effectively than acids, particularly in removing grease. Biodegradable. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709566 | 4891-08 | 1 gallon bottle |



Industry's #1 Selling
Coil Cleaner!

CALCLEAN®

An alkaline detergent formulated for cleaning evaporator coils, air-cooled condenser coils, metal filters, fan blades, and other surfaces soiled with grease, dust and dirt. Biodegradable. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|------------------------------|
| 709550 | 4081-75 | 20 ounce can – NSF Certified |
| 709588 | 4820-08 | 1 gallon bottle |



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COIL CLEANERS (cont'd)

SPECIAL HD CALCLEAN®

The best cleaner available. Specifically formulated to remove tobacco tars from electronic air cleaners as well as the most stubborn deposits from finned coils. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709590 | 4823-08 | 1 gallon bottle |



EVAP POW'R-C®

A no rinse product formulated for cleaning evaporator coils. It is metal-safe, and it cleans and emulsifies even the most stubborn soils and deposits. Biodegradable. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709556 | 4168-08 | 1 gallon bottle |



EVAP FOAM NO RINSE®

Evap Foam No Rinse is a high performing, heavy duty detergent. It is formulated with special surfactants and alkaline cleaners that have been developed into a foaming, no-rinse product. Evap Foam is ideal for use on most coils, but it is particularly suited for use on cooling or evaporator coils. The aerosol can be sprayed either right side up or upside down. NSF certified.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|--------------|
| 709557 | 4171-75 | 18 ounce can |




NU-BLAST® CONDENSER COIL CLEANER

A no-rinse condenser coil cleaner in a convenient aerosol package. Double action of high pressure blast and solvent cleaning restores design efficiency of condenser coils. It is non-flammable and non-conductive. No rinse required – cleaning solvent evaporates completely. Use with adequate ventilation.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|--------------|
| 709564 | 4290-75 | 18 ounce can |



SPRAYERS

NO. 50P POLY SPRAYER

The No. 50P is constructed of high-density translucent polyethylene. It has a half gallon (3 pint) capacity. The nozzle is adjustable and the flow rate is controlled by a thumb lever. It comes with a 7" polyethylene pump.

| ITEM # | MODEL | DESCRIPTION |
|--------|--------|-------------|
| 709584 | 4770-0 | 1 each |



NO. 300P POLY SPRAYER

The No. 300P Poly Sprayer is constructed of high-density translucent polyethylene. It has a funnel-top and a 3.5 gallon capacity (3 gallon working capacity). It comes with a 10" Celcon pump, brass extension tube with adjustable nozzle, and five feet of vinyl hose.

| ITEM # | MODEL | DESCRIPTION |
|--------|--------|-------------|
| 709586 | 4772-0 | 1 each |



REFRIGERATION OIL AND VACUUM PUMP OIL

EMKARATE® RL POLYOL ESTER (POE) LUBRICANT

The Emkarate family includes a range of polyol ester refrigeration lubricants designed specifically for use with HFC refrigerants. They meet the performance demands of the refrigeration industry by means of base fluids that have been formulated for optimum performance and minimal additive levels.

Available in a range of viscosities to suit most air conditioning and refrigeration applications. They have excellent thermal and chemical stability, and are compatible with a wide range of elastomers, polymeric materials, and other materials of construction. Fully miscible and compatible with mineral oils and alkylbenzene lubricants as well as with CFCs, HCFCs and HFCs. As a result, they are excellent choices for retrofitting existing equipment.

OEM Approvals: Copeland, Carlyle (Carrier), Bitzer, Tecumseh, McQuay, and many others.

| ITEM # | MODEL | DESCRIPTION | VISCOSITY | QTY |
|--------|---------|------------------|-----------|----------|
| 709576 | 4314-64 | 32-3MAF Poly Oil | 150 SUS | 1 quart |
| 709578 | 4314-66 | 32-3MAF Poly Oil | 150 SUS | 1 gallon |



MINERAL — C-3S

A mineral naphthenic lubricant manufactured by Calumet Lubricant Company and available in three viscosities.

It is specifically designed for today's high performance air conditioning and refrigeration compressors using CFC and HCFC refrigerants. These compressors run at higher speeds and generate higher temperatures, and as a result, require better lubrication. Use of this oil will insure continued efficient operation, providing the important properties required from an efficient refrigeration oil:

- Good lubrication
- Good stability
- Good low temperature performance

OEM Approvals: Copeland, Dunham Bush, Tecumseh, Carlyle (Carrier), Bristol, and many others.

| ITEM # | MODEL | DESCRIPTION | VISCOSITY | QTY |
|--------|---------|------------------|-----------|----------|
| 709568 | 4303-07 | C-3S Mineral Oil | 150 SUS | 1 gallon |



ZEROL® ALKYL BENZENE REFRIGERATION OIL

The original alkylbenzene, Zerol is a high quality, synthetic alkylbenzene refrigeration oil. It is similar in many ways to natural mineral oils but has superior properties that make it especially valuable in refrigeration and air conditioning applications, particularly those using HCFC refrigerants.

Zerol Refrigeration Oil is recommended for use in all refrigeration and air conditioning applications using CFC and HCFC refrigerants. It is highly recommended by refrigerant and compressor manufacturers for use with the HCFC blends such as R-401A and R-409A as it provides many distinct advantages: excellent miscibility, excellent thermal stability, low temperature performance compatibility with mineral oils. It is the oil of choice for R-22 and R-502. It is also an excellent clean-up/flushing oil.

OEM Approvals: Copeland (Zerol 200TD), Danfoss, Tecumseh, Carlyle (Carrier), Bristol and many others.

| ITEM # | MODEL | DESCRIPTION | VISCOSITY | QTY |
|--------|---------|-------------|-----------|----------|
| 709572 | 4308-07 | Zerol 200TD | 200 SUS | 1 gallon |



CAL-VAC™ VACUUM PUMP OIL

Nu-Calgon's Vacuum Pump Oil is a quality, high-grade lubricant that performs at the deepest vacuum. It has a very low vapour pressure and it has excellent lubricity for complete surface protection. It contains no additives or detergents.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709582 | 4383-24 | 1 quart bottle |
| 709580 | 4383-07 | 1 gallon bottle |



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TOTAL SYSTEM PROTECTION

R_x11-FLUSH®

R_x11-flush is an ozone-safe solvent engineered specifically for flushing refrigeration and air conditioning systems and line sets. It is strong enough to rinse away particulates, sludge, carbon residues, acids, oils, and water after burnouts. R_x11-flush is ideal for flushing line sets on R-410A conversions, works fast, and is easy to use.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|---------------|
| 709608 | 4300-09 | 1 lb canister |



R_x11-FLUSH® ACCESSORIES

The R_x11-flush product family also includes various support tools. This includes the new and improved Injection Valve for hooking up to a charging hose for flushing and the Flushing Tool for facilitating line set flushing. In addition, the R_x11-flush Gun with a built-in flushing attachment and the R_x11-flush Hose (24") are available.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709610 | 4300-99 | Injection Valve |



R_x-ACID SCAVENGER®

The most effective way to neutralize or "scavenge" acid in refrigeration, air conditioning systems. It is perfect for use after burnouts or during normal on-going system maintenance. Normal dosage rate is 2 fluid ounces for every one gallon of system oil, which is 50% less than other acid neutralizing products. This "low treat" feature means far less material has to be added to the system. In addition, the R_x-Acid Scavenger can be used with all lubricants: mineral, alkylbenzene and polyolester.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-------------|
| 709577 | 4301-02 | 1 each |



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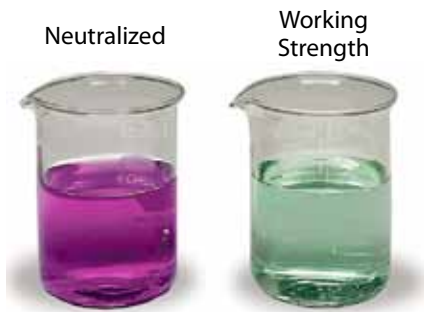
SCALE REMOVAL/DESCALING

LIQUID SCALE DISSOLVER

A hydrochloric (muriatic) acid formulated to remove calcium scales from cooling towers and other water-cooled equipment. It contains low-foaming corrosion inhibitors and a built-in pH colour indicator to let you know when the acid has been neutralized. pH test paper is also included. USDA approved.

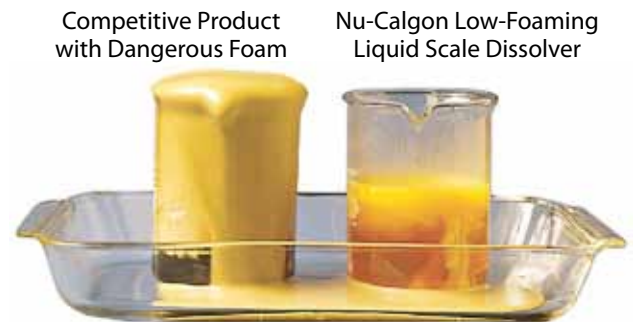


| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 709604 | 4845-K8 | 1 gallon bottle |



pH Colour Indicator

Nu-Calgon's exclusive "built-in" pH colour indicator tells you when to add more acid, and it lets you see when the system is clean. At working strength, the acid cleaning solution is green or light blue. When the acid solution is neutralized and is no longer working, the solution turns purple and more acid must then be added. The system is clean when the green colour is retained for 20-45 minutes.



Low-Foaming Performance

To demonstrate its greater low-foam property, Liquid Scale Dissolver was added to a beaker containing lime scale. A leading competitive liquid product was added to another beaker containing an equal amount of lime scale. See the difference! When cleaning towers and evaporator condensers, low-foam is the preferred approach as high foam is dangerous to both personnel and surroundings.

Dosage Recommendation

| TONS OF HORSEPOWER | LIQUID SCALE DISSOLVER |
|--------------------|------------------------|
| 10 | 2 gallons |
| 30 | 5 gallons |
| 50 | 10 gallons |
| 90 | 15 gallons |

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GAS LEAK DETECTORS

CAL-BLUE® PLUS GAS LEAK DETECTOR

Cal-Blue Plus is a complete gas leak detector, freeze protected to 5°F. Its high viscosity formula enables it to remain in contact with the applied surface for an extended period of time, allowing it to detect the smallest of leaks. It is also non-corrosive to metal, and it will not affect ultraviolet or black lights.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|----------------------|
| 709558 | 4182-24 | 1 quart spray bottle |



FLUORESCENT GAS LEAK DETECTOR

A fluorescent formulation that provides improved visibility and long lasting bubbles. It is non-corrosive to metals and is freeze protected to 5°F. Suitable for high and low temperature applications. Can be used for most refrigerants, natural gas and oxygen systems. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|----------------------|
| 709562 | 4184-24 | 1 quart spray bottle |
| 709560 | 4184-08 | 1 gallon bottle |



SPECIALTY PRODUCTS

THERMO-TRAP®

The industry's original heat absorbing paste designed to isolate heat encountered in soldering, welding, and brazing, thereby preventing damage to nearby heat sensitive controls, fittings, or other material. USDA approved. Biodegradable.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|---------------|
| 709606 | 4371-36 | 11 ounce tube |



INDUSTRIAL PRODUCTS

Electrical Contact Cleaner

Cleans, lubricates, and protects electrical contacts from corrosion, and is safe on most plastics. Cleaning action quickly removes greases, dust, and oxidation, and restores and maintains precision and efficiency to the instrument and component. Includes extension tube for pinpointing application. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|------------------------------------|
| 709552 | 4082-03 | 11 ounce can (with extension tube) |



LUBRICANTS

FOOD-GRADE SILICONE

Food Grade Silicone sprays a perfect non-stick surface on ice machine surfaces, vending machines, coin slots, slicing machines, dairy machinery, and other food processing and packaging equipment. An excellent lubricant that prevents binding and sticking. Contains ingredients approved by the FDA for food contact use. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|--------------|
| 709554 | 4084-03 | 12 ounce can |



ICE MACHINE MAINTENANCE

NICKEL-SAFE ICE MACHINE CLEANER

The original Nickel-Safe Ice Machine Cleaner. It is a food-grade citric-phosphoric acid product for removing scale deposits from ice machines having nickel-plated or tin-plated evaporators, and it is acceptable for use in all ice machines containing nickel. It mixes to form a green solution which makes rinsing easier. USDA approved.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------------|
| 709596 | 4841-AB | 16 fluid ounce bottle |
| 709598 | 4841-08 | 1 gallon bottle |



GLYCOL WATER TREATMENT

FREEZ-KONTR'L®

A complete heat transfer fluid and anti-freeze based upon non-toxic propylene glycol. It is formulated to provide corrosion protection and freeze protection for chilled water, hydronic, and other closed systems. Available in 70% and 95% propylene glycol concentrations. Safe to use where contact with potable water is possible. GRAS certified.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|------------------------|
| 836053 | 4188-07 | 1 gallon bottle |
| 836062 | 4188-05 | 5 gallon pail |
| 836069 | 4188-01 | 55 gallon drum – steel |



FREEZE-THERM®

An inhibited heat transfer fluid and anti-freeze based upon ethylene glycol. It can be used in chilled water, hydronic, and other closed systems for both freeze point suppression and corrosion inhibition. An uninhibited version is also available in drums on special order.

| ITEM # | MODEL | DESCRIPTION |
|--------|---------|-----------------|
| 836055 | 4189-07 | 1 gallon bottle |
| 836063 | 4189-05 | 5 gallon pail |

