



# CLEANING AND MAINTENANCE SOLUTIONS

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## WATER-BASED CLEANING CHEMICALS

### ER-TEEPOL

Water-based liquid detergent. It is formulated for removing fat, oil, grease and grime. ER-TEEPOL is an eco-friendly product and it is non toxic, completely biodegradable and safe to be used.

### ER-SOAP LIQUID

Water-based tank and cargo-hold cleaner. It is low toxic, completely biodegradable and safe to use. It is a multi-purpose cleaner used to clean efficiently large surface areas and cargo tanks from animal oil, vegetable oil, fish oil, fat, and waxes.

### ER-APC ORANGE

Ecological multipurpose water-based cleaner. It is a superior high-quality cleaner and degreaser to remove oil or dirt from any surface. This multipurpose cleaner is low-toxic, biodegradable and safe to use for the operating personnel.

### MULTI CLEANER

It is a very concentrated water-based liquid produced to remove greases, sludge, carbon deposits, hydraulic oil, fuel oil, dirt and grime, from engine room, soak tanks, ultrasonic tanks, bilges, decks, cabins.

### ER-CLEAN SAFETY

Water-based concentrated neutral pH cleaner. It is specially formulated for removing vegetable oil, animal oil, fats and light mineral oil from aluminum and zinc-silicate coated tank surfaces. It can be also used as a hydrocarbon remover.

### ER-APC

General cleaner for all purposes.

### ER-HDC

It is formulated as powerful water-based oil remover for places heavily exposed by hydraulic oil, rubber, fuel-oils and diesel oils.

## SOLVENT-BASED CLEANING CHEMICALS

### OIL & GREASE REMOVER

Solvent-based liquid developed to clean effectively petroleum and oil deposits from all metal, painted/unpainted surfaces, decks, engine rooms and bilges.

### ER-OGR

Odorless solvent-based liquid developed to clean effectively petroleum and oil deposits from any metal, painted/unpainted tank surfaces, decks, engine rooms and bilges.

### ECC-19

Air cooler cleaner.

### CARBON REMOVER

Special product produced to remove deposits like carbon, grease, oil, varnishes from diesel engine blocks, gear boxes, pistons, rings, valves, pipes, and coolers.

### FILTER CLEANER

Cleaner used for removal of partially carbonized oil and sludge in metal/ceramic oil filters.

### CLEAN BREAK

Powerful solvent-based emulsifying cleaner, used for cleaning fuel oil and grease deposits at the engine rooms, bilges, decks, tanks and etc.

### PAINT REMOVER

Its formula penetrates between the paint and metal and provides paint to remove itself. Usage is very simple and economical. Since it removes the paint by scratching rather than melting, the cleaning solution can be recovered and used many times. It has no harm to the metal and existing coating on the metal.

### ER-ELECTRIC

Powerful solvent-based cleaner used for cleaning and degreasing oil, grease and carbon deposits from the surfaces of electric motors and equipments. It is safe to use on all kinds of metals and their alloys. It is also effective and fast cleaner with high evaporation rate.

### ER-ELECTRIC SD

Concentrated solvent-based cleaner used for cleaning and degreasing oil, grease and carbon deposits from the surfaces of electric motors and equipments. It is safe to use on all kinds of metals and their alloys. It has lower evaporation rate than ER-ELECTRIC which means lower solvent smell in the area it is used.

### ER-ELECTRIC NA

Non-aromatic solvent-based cleaner used for cleaning and degreasing oil, grease and carbon deposits from the surfaces of the electric motors and equipments. It is safe to use on all kinds of metals and their alloys. It has lower evaporation rate than any other electro cleaners at the market.



# ACID-BASED CLEANING CHEMICALS

## DESCALING LIQUID

Very effective acid solution, powered by amin-based inhibitors to clean the scale and corrosion deposits left by the water in the heat changing systems like vapor-hot water boilers, heat exchangers, condensers, evaporators and induction ovens. It can't be used on galvanized, aluminum, zinc and yellow metal surfaces.

## DESCALEX LIQUID

Applied to remove scab and rust deposits which occur on aluminum, copper, brass, stainless steel boiler tanks, cooling systems, injection machines, evaporator, seawater systems and air conditioners. It is weak and odorless acid thus it's suitable for the cleaning of all kinds of metals.

## DESCALEX POWDER

Dry acid cleaner used for removing scale and rust deposits over aluminum, copper, zinc, galvanized metals, steel boilers, cooling systems, ejection machines, condense lines and climate systems.

## ER-ACID ORG

It is a unique product which is one of the strongest acids in the market like Descaling Liquid, it easily removes lime, scale, hardened mud, even cement from surfaces, on the other hand it is very safe to use, unlike Descaling Liquid no vapor is released to environment which makes ER-ACID ORG safe to use in doors. As long as used under control it is aluminum and copper shiner. Also, if it is not used more than 1 hour during cleaning it is safe to use over precision metals like zinc and galvanized.

## RUST REMOVER

Acid-based cleaning product for cleaning rust stains. It can be also used for cleaning deposits left from the caustic-based cargos like caustic soda. It also brightens the metals.

## RUST REMOVER 4E

It is designed as a multi-purpose surface cleaner. The 4E abbreviation refers to four effects of the product: Rust remover, oil remover, scale remover, and protective primer layer. It is build up with corrosion inhibitors after it cleans oil, scale, and rust from the metal surfaces it forms a protective primer layer, which blocks the contact of bare metal with oxygen and humidity. This protection prevents metal from rust in medium-term till it is coated with appropriate paint or other coatings.

## RUST STOP

Instead of removing the rust, its goal is to convert the rust to a black coating that prevents further rusting. It can be applied to any rusted iron or steel surface. It converts rust into a protective black layer that seals moisture out and protects against future corrosion.

## ERCLEAN-BRITE

It contains acids and surfactants in its formula and it cleans the rust and brightens the metal surfaces.

## ERBRIGHT AL

Specially formulated to remove grease, dirt, scale, soot, soil, lime and deposits over aluminum surfaces. It has weak acids and surface actives in its formula. It is safe to use on aluminum, galvanized, zinc, brass, copper and stainless steel. It also brightens the applied surface.

## SEPARATOR DISC CLEANER

Acid-based cleaner to remove contaminants like scab, sludge, oil and carbon over lubricating oil and fuel oil separator discs. It's suitable to use in lubricant and fuel separators.

## ER-PICKLING LIQUID

Combination of strong acids like nitrite acid, hydrofluoric acid and surface active agents which must be only used on stainless steel. It can't be used on all metals except stainless steel due to its corrosive effect on other metal surfaces.

## ER-PASSIVATING LIQUID

Acid-based concentrated liquid which used for passivating pickled installations and tank surfaces. Passivation process creates a protective chromium oxide film against corrosion contamination.



## Special Products

### ERTEM-G

It is specially formulated to remove oil, grease or the dust from hands. Its powerful formula ensures quick and thorough cleaning over hands after any mechanical process. It also has skin softeners in its formula and is appropriate for everyday usage.

### PURE CLEAN

PURE CLEAN is an alcohol-based hand and skin antiseptic applied by spraying on the hands and skin. Due to its alcohol based structure, it provides the most effective and rapid antiseptics of contaminated bacteria, viruses and other microorganisms in the hands. As it contains aloe vera extract, it has a softening and protective effect on the skin.

## ENVIRONMENTAL SOLUTIONS

### OIL SPILL DISPERSANTS

#### ER-OSD

It is developed to separate, disperse and clear accidental oil spills over the sea surface and other oil spilled places. It has low toxicity and high dispersing effect.

#### ER-OSD PLUS

Solvent-based product which is developed to separate and disperse the spilled fuel oil over the sea surface, other oil spilled places. It has high dispersing effect.

#### ER-OSD ECO

Third generation product which is developed to separate, disperse and clear accidental oil spills over the sea surface and other oil spilled places. It has low toxicity and high dispersing effect. It is an environmental friendly product containing no petrochemical solvents.

### ASTEROIDS

Turbocharger cleaner which is produced from hard shells of fruit stones that have been stabilized by drying and degreasing. No chemicals are used in production process and foreign matters are eliminated. Particle size tolerance: Ø 1,3 to Ø 1,7 mm.

### OIL ABSORBANTS

#### ER-OA

Strong oil absorbent which is not formulated with chemicals, it is a mixture of minerals which doesn't get in chemical reaction with the applied liquid, It is 100% natural, non-toxic and biodegradable. ER-OA can be used on every surface that is exposed to oil, fuel oil, benzene or diesel oil.

### OIL SPILL KITS & EQUIPMENTS

In the event of minor oil spills during operations or maintenance a fast, efficient response is essential. Our oil spill kits, booms, sorbent pads and other damage control solutions are all designed to be deployed easily and effectively when used in conjunction with the response plan. We have 7 barrels and 12 barrels kits in our range.



# Natural life is a chemical product

We hope to share our experience of over 40 years with you.

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