

SAFETY DATA SHEET CATALOG



WIDE PRODUCT
RANGE



IMO APPROVED
CHEMICALS



SAFE & RELIABLE &
FAST SERVICE



WORLDWIDE
SERVICES



THE BEST PRICE-
PERFORMANCE RATIO

CONTENTS

Who Are We?	03
Product Range	04
Tank Cleaning Chemicals	05
Cargo-Hold Cleaning Chemicals	06
Coating Chemicals	06
Boiler Water Treatments	07
Cooling Water Treatments	07
Evaporator Treatment	08
Fuel Oil Treatments	08
Water-Based Cleaning Chemicals	09
Solvent-Based Cleaning Chemicals	09
Acid-Based Cleaning Chemicals	10
Oil Spill Dispersants	11
Biological Cleaning Chemicals	11
Special Products	12
Test Kits	12
Chemical Applicator Set	13
ER-40 DI Water Production Unit	13
Supply Points	14
Safety Data Sheets	15

SDS CONTENTS

ANTIFOAM
ANTIFREEZE
ASTEROIDS
BAUXITE REMOVER
BOILER COAGULANT
CARBON REMOVER
CEMENT REMOVER
CHLOR POWDER
CHLOR TABLET(20GR)
CHLOR TABLET(200GR)
CLEAN BREAK -NA
CLEAN BREAK
COAL TAR REMOVER
DESCALEX LIQUID-3S
DESCALEX POWDER
DESCALING LIQUID
DISC CLEANER
DISINFECTANT LIQUID
DRAIN OPENER
EC-2
EC-2DH
EC-2H
ECC-19
EK-1
EK-1J
EK-1P
EK-1S
EK-1WH
EK-4
EK-5
EK-5WH
ELEKTROCLEAN SLOW DRY
ER-AC 50
ER-AC NF
ER-AC PLUS EX
ER-AC PLUS
ER-AC
ER-APC AQUA HF
ER-APC AQUA
ER-APC EXTRA 50
ER-APC EXTRA 200
ER-APC LF
ER-APC NF
ER-APC ORANGE
ER-APC
ERAY-S
ERAY
ERBIO-BC 850 POWDER
ERBIO-BIO BTC
ERBIO-BIO DPC
ER-BIO MSC
ER-BIO TD
ER-BIO TDS
ERBIOCIDE FW
ERBIOCIDE
ERBIOCIDE-A
ERBIOCIDE-EX
ERBIOCIDE-SD
ERBIOCIDE-SW
ERBIO-CL
ERBRANE ACF
ERBRANE
ERBRANE BC
ERBRANE SW
ERBRIGHT AL
ERCLEAN 226
ER-CLEAN ALKA FOAM
ER-CLEAN ASP
ER-CLEAN BRITE
ER-CLEAN BUFFER
ER-CLEAN COMBI
ER-CLEAN CTC
ER-CLEAN DECK
ER-CLEAN DEGREASER
ER-CLEAN DRAIN
ER-CLEAN DYE

ER-CLEAN FRESH
ERCLEAN HCF CONCENTRATE
ER-CLEAN HCF
ER-CLEAN I-DUST
ER-CLEAN IGS
ER-CLEAN LIME
ER-CLEAN PCS
ER-CLEAN POWDER
ER-CLEAN SAFETY
ER-CLEAN SURFACE
ER-CLEAN ULTRA B
ER-CLEAN- OIL
ER-CLEAN-TC
ER-CLEAN-WT
ERCOAT EASY
ERCOAT-BALLAST
ER-ELECTRIC FSD
ER-ELECTRIC NA
ER-ELECTRIC SD
ER-ELECTRIC
ER-FLOC BW
ERFOS-3
ERFOS -3-PWT
ER-GSC
ER-HDC
ERKAZIN
ERKONIN
ER-OA
ER-OGR
ER-OSD ECO
ER-OSD PLUS
ER-OSD
ERROSEN
ER-PASSIVATING LIQUID
ER-PICKLING LIQUID
ER-SA
ER-SOAP LIQUID
ER-TEEPOL
ERTEM-G
ERTEM-D

ERTEM-DA
ERYAK 200
ERYAK 210
ERYAK 220
ERYAK 280
ERYAK 300
ERYAK 500
ERYAK-CFIs
ERYAK-LS EXTRA
ES-3
ES-3D
ES-3DM
ES-3DP
ES-4
ES-4CI
ES-4SI
ES-5D
ES-5DM
ES-6K
ES-7DM
EVAPORATOR TREATMENT
FERRIC TRICHLORIDE SOLUTION
FILTER CLEANER
FOAM MAKER
MUD&SILT CONDITIONER
MULTI CLEANER
OIL&GREASE REMOVER
PAINT REMOVER
PURE CLEAN
REEFER CLEANER
RUST REMOVER
RUST STOP
SEPERATOR DISC CLEANER
SOOT REMOVER LIQUID
SOOT REMOVER POWDER
TANK CLEANER EXTRA
TANK CLEANER XS
TANK CLEANER
TEAK CLEANER (DECK CLEANER)
WHITE SIPRITE

WHO ARE WE?

1970

Started manufacturing industrial treatment & maintenance chemicals.

1999

Introduction to the marine industry with 2000 m² production area.

2005

Started manufacturing and supplying for worldwide marine chemicals brands.

2010

Became the first marine chemicals manufacturer company which has IMO approved cleaning chemicals in Turkey.

2015

Established second factory in China with four different stock points besides the factory, to preserve our quality at Far East.

NOW

We ensure fast & safe services with reasonable prices by our experienced & dynamic team at **5 continents & 27 countries**.



PRODUCT RANGE

BOILER WATER TREATMENTS

COOLING WATER TREATMENTS

EVAPORATOR TREATMENT

FUEL OIL TREATMENTS

TANK CLEANING CHEMICALS

CARGO-HOLD CLEANING CHEMICALS

COATING CHEMICALS

WATER-BASED CLEANING CHEMICALS

SOLVENT-BASED CLEANING CHEMICALS

ACID-BASED CLEANING CHEMICALS

OIL SPILL DISPERSANTS

BIOLOGICAL CLEANING CHEMICALS

SPECIAL PRODUCTS

RAW MATERIALS

TEST KITS

CHEMICAL APPLICATOR SET

ER-40 DI WATER PRODUCTION UNIT

TANK CLEANING CHEMICALS

TANK CLEANER (IMO APPROVED)

Solvent-based tank cleaner for petroleum, mineral oil, base oil, jet oil and lube oil.

TANK CLEANER EXTRA (IMO APPROVED)

Highly concentrated and effective solvent-based tank cleaner for petroleum, mineral oil, base oil, jet oil and lube oil. (Dosage rate : Only 0,2 % to 1 %)

ER-AC (IMO APPROVED)

NaOH-based alkaline cleaner and degreaser for vegetable oil, animal oil, fatty acids, fish oil, palm oil, greases, waxes, sludge, soot, carbon deposits, grime and general dirt.

ER-AC PLUS (IMO APPROVED)

KOH-based strong alkaline cleaner for vegetable oil, animal oil, fatty acids, fish oil, palm oil, greases, waxes, sludge, soot, carbon deposits, grime and general dirt. It is also effective on inert gas soot on tank surfaces and free of sodium hydroxide.

ER-APC (IMO APPROVED)

Ecological water-based high-quality general cleaner and degreaser for removing mineral oil, diesel oil and dirt from all surfaces. It is low-toxic, biodegradable, excellent cleaner for machine rooms, decks, cabins, tool and floor cleaning. Besides cleaning properties, it can be used as hydrocarbon remover as well.

ER-APC EXTRA 50 (IMO APPROVED)

High-quality, water-based multipurpose cleaner and degreaser to clean diesel oil, lube oil and dirt from any surface. It is low-toxic, biodegradable and safe to us for the operating staff and an excellent product for hydrocarbon cleaning. (Dosage rate : Only 1% to 2%)

ERCLEAN-HCF (IMO APPROVED)

Water-based tank cleaner and hydrocarbon remover. After cleaning the tanks with Tank Cleaner, Tank Cleaner Extra, ER-AC and ER-AC PLUS if presence of Hydrocarbon is still detected, ERCLEAN-HCF is excellent product to remove it.

ER-APC EXTRA 200 (IMO APPROVED)

Super concentrated new generation tank cleaner to remove palm oil, vegetable oil, fish oil, mineral oil, lube oil, phthalates, paraffines and greases. It is neutral pH product and free from chlorinated/aromatic hydrocarbons, caustic and alkalines. It is at the same time a good hydrocarbon remover. This effective cleaner is low-toxic, completely biodegradable and it is safe to use for the operating staff. (Dosage rate : Only 0,2% to 0,4%)

RUST REMOVER (IMO APPROVED)

Acid-based product for cleaning rust stains and it can also be used to clean if white residues left on the tank surfaces after cleaning with alkaline cleaners.

ERCLEAN-HCF CONCENTRATE

High-performanced, concentrated solvent cleaner for removing hydrocarbon and inhibitors. It consists of biodegradable surface agents and water soluble solvents. It is odorless, eco-friendly product, free of acids, alkali and phosphates.

ER-CLEAN SAFETY (IMO APPROVED)

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 also be used as a hydrocarbon remover.

ERCLEAN BUFFER

It is advised to use when the cargo tanks have to be completely free of lead, chlorides or sulfite before loading high purity cargoes.

CARGO-HOLD CLEANING CHEMICALS

ER-APC AQUA (IMO APPROVED)

Heavy duty water-based alkaline cleaner. It has cleaning applications including coal and petcoke residues, greases, waxes, vegetable oil, animal oil, sludge, carbon deposits, dirt and grime. It is appropriate with all cleaning methods. It is a highly foaming product nevertheless, it can also be used together with foam agent if needed.

ER-TEEPOL (IMO APPROVED)

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.

ERCLEAN IGS (IMO APPROVED)

Heavy duty water-based alkaline cleaner and degreaser. It is mainly used for IGS (inert gas soot) cleaning in cargo tanks. It is also used for numerous cleaning applications including cleaning of vegetable oil, animal oil, fatty acids, fish oil, greases, waxes, oil, sludge, carbon deposits, general dirt and grime.

COAL TAR REMOVER (IMO APPROVED)

Solvent-based liquid designed to clean carbonized coal tar crude benzene, bitumen traces from tanks, heat exchangers and air coolers.

BAUXITE REMOVER

Acid-based cleaning product for cleaning bauxite stains from cargo tanks.

ERCLEAN-I DUST

Concentrated aqueous liquid solution consisting of a blend of synergetic antioxidants and passivators. It is used to remove iron dust from any steel surface area and iron dust stains from brass, copper, stainless steel, wood, ceramic and aluminum surfaces, painted or not. It can be used for cleaning cargo holds from hot briquetted iron (HBI) contamination, after unloading the cargo, with great success.

ERCLEAN PCS

Concentrated liquid produced to remove petcoke from cargo and storage tanks. With its strong formulation ERCLEAN PCS also eliminates unpleasant odors and mineral deposits from tanks and closed areas.

ERCLEAN LIME

Strong acid-based cleaner to remove lime stone and slaked lime from cargo holds. It is formulated with strong surfactants, special corrosion inhibitors and acids. It is adequate to neutralize strong alkaline conditions. It is not recommended to use over aluminum, galvanized, zinc and lead surfaces.

MUD & SILT CONDITION

Concentrated liquid solution formulated with special surfactants and corrosion inhibitors in order to prevent heavy sediment accumulation and disperse mud and silt in ballast water tanks.

CEMENT REMOVER

Effective strong acid compound specifically designed to deal with stubborn deposits like cement deposits cleaning from cargo or dry cement stains from most common surfaces. It can safely be used on every metal surface except zinc, aluminum and galvanize. It does not harm to plastics and o-rings.

COATING CHEMICALS

ER-COAT EASY

Water-based product specially formulated to make a thin, temporary film layer on cargo-hold surfaces to protect the cargo walls from cement, sulphur, petcoke and coal. It is non-corrosive and safe to use on all coatings.

LIME WASH

Especially used for disinfecting coating of interior and exterior (if appropriately protected against rainfall) wall surfaces of the storage houses, larders, cellars, shelters, barns etc., and also as a protecting and disinfecting agent in agriculture, e.g. protection of fruit tree trunks in winter. All lime coatings are exceptionally water vapor permeable, painted wall and ceiling surfaces get distinctive (fresh) lime scent and mild (silky) gloss.

BOILER WATER TREATMENTS

EK-1

A complete product to control oxygen corrosion, sludge, scale and foaming and to balance alkalinity in the boiler and steam lines.

EC-2

A volatile amine-based product affects inhibitor for steam boilers and condensate return lines. It is used for to protect systems from oxygen and carbon dioxide corrosion.

ERAY

Strong alkali boiler water additive for increasing low pH in steam and boiling water boilers which works with pure water (DI water). It is used to adjust pH to ideal ranges (10-12).

EC-2H

Amine-based efficient boiler and condensation line oxygen scavenger to prevent oxygen corrosion to form in the boilers and steam lines.

EK-1 WH

Catalyzed sulfide-based boiler water additive. It controls oxygen corrosion, sludge and scale in steam boilers and hot water boilers, and balances alkalinity as well.

ERFOS-3

Hardness control for boilers. It also removes the scale, lime and rust inside the boiler.

EK-5

Additive for boiler water and condensate line which consists of organic compounds which prevents corrosion, scab, furring, ooze in the form of precipitation and foaming in the steam boiler, steam lines, boiling water boiler and condensate line.

BOILER COAGULANT

Sludge conditioner designed to prevent water deposits and sludge in boiler.

EK-1 J

Generator water treatment inhibitor. It prevents the system from corrosion and scale.

COOLING WATER TREATMENTS

ES-3D

An inhibitor which is used in cooling water (main engine water), closed circuit heating and cooling systems. It's an excellent anti-scab and anti-corrosive. It does not contain chromate and it is compatible with glycol based antifreezes.

ES-3DP

An inhibitor in powder form which is used in diesel cooling water (main engine water), closed circuit heating and cooling systems.

ERBIOCIDE-SW

It is formulated to protect cooling water systems from bacteria, fungus, mold, oyster, mussel etc. by destroying their cells.

ERBIOCIDE-A

It is formulated to prevent the system from algae, bacteria, fungus, mold, oyster, moss and the contamination they cause.

ERBIOCIDE-FW

It is formulated to protect cooling water systems from bacteria, fungus, mold, oyster, mussel and etc. by destroying their cells. It is an economic product in the range with price.

ANTIFREEZE

An anti-corrosive product to protect the system against freezing in cooling systems. The product is in pure, concentrated form.

EVAPORATOR TREATMENT

EVAPORATOR TREATMENT

It is an additive which prevents the formation of the scab, scale, sludge in high and low-pressure fresh water producing systems. The product is also effective in removing the scab which was formed before the usage of Evaporator Treatment.

FUEL OIL TREATMENTS

ERYAK-200

General fuel oil treatment product. It breaks the paraffin and water molecules in the fuel and help a better combustion. It thins the fuel and provides a better fluidity.

ERYAK-210

It provides full combustion efficiency for the fuel oil and gets the maximum output. It can be used in both diesel machine and boiler fuels. You may use it even in distilled fuel. It prevents combustion surfaces from carbon deposits, reduces the formation of smoke particles and reduces corrosion resulting from the low temperatures in the system. The treated fuel-oil with ERYAK 210 burns completely and doesn't leave a deposit behind.

ERYAK-220

Efficient fuel oil additive in diesel motors and boilers reactivates with vanadium components and raises their melting point. The reactivated vanadium components remain solid. It also increases the combustion temperature, solid remains of vanadium components burn in high temperatures and their ashes are easily ejected by the gas stream, so no sulfur or sodium formations, remains at exhaust valves and turbochargers.

ERYAK-280

It cleans all the bacteria and microorganism colonies in fuel system, moreover it improves combustion by stabilizing the fuel.

ERYAK-300

It is a mixture of specific solvents combined with emulsion break compounds, which can efficiently be used for separating the quantities of water in marine fuels by breaking the water in oil emulsions. It also dissolves the deposits in the fuel depot. Dispersants and emulsifiers in ERYAK-300 breaks the paraffin and water molecules in the fuel and help a better combustion. It thins the fuel and provides a better fluidity.

ERYAK-500

Non-hazardous, 100% organic, metal-free and eco-friendly concentrated lubricity improver for fuel and diesel oils. It starts to perform when it mixes with fuel or diesel oil till the combustion finishes. It homogenizes the fuel, keeps clean all the lines, protect the system from corrosion and it cleans the dirt and rust from the system on ideal usage. It prevents fuel tanks from sludge formations. It does not create ash and minimize the emissions and deposits.

ERYAK-LS EXTRA

Lubricity improver for low-sulfur fuels. It increases the lubricity in the low-sulfur fuels without increasing the percentage of sulfur in the fuel and protects the engine from above dangers, moreover with corrosion inhibitors inside, it protects the engine from corrosion and lengthens its useful life.

SOOT REMOVER

Powder product which cleans the soot layers at the combustion chamber and exhaust systems. It drops the ignition point of soot and ash to 250 C°. The soot and ash deposit thus ignited, leaving an easily removed ash.

SOOT REMOVER LIQUID

Liquid form of Soot Remover.

WATER-BASED CLEANING CHEMICALS

ER-APC (IMO APPROVED)

General cleaner for all purposes.

ER-HDC (IMO APPROVED)

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

ER-APC ORANGE (IMO APPROVED)

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.

ER-TEEPOL (IMO APPROVED)

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.

MULTI CLEANER (IMO APPROVED)

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.

ERCLEAN SAFETY (IMO APPROVED)

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-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.

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 (IMO APPROVED)

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 (IMO APPROVED)

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.

SEPERATOR 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.

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.

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.

BIOLOGICAL CLEANING CHEMICALS

ERBIO-CL

Wastewater system disinfectant. It kills bacteria colonies wherever it is applied like floors of kitchen, aisles, cabinets and toilets; provides hygiene and healthy environment.

ERBIO-TD

Concentrated liquid living aerobic and anaerobic bacteria selected to produce active enzymes which are required for degradation of sanitation wastes.

ERBIO-TDS

Powder product formulated to dissolve organic and inorganic materials, uric acid, scale, fat and grease in toilet systems, drains and pipes.

ERBIO-DPC

It degrades excess residual waste products, blocking sinks, showers, drains, etc. and cleans grease, fats, sewage starch and other compounds.

ERBIO-MSD

Biodegradable general sanitant which is manufactured from very strong disinfectants. It has multi-purpose usages, it can be used for general cleaning and sanitation.

ERBIO-BTC

It is formulated as powerful water-based oil, fat, dirt and other solid waste materials remover. It has antibacterial specialties.

ERBIO-FN

It is formulated as a powerful cleaner to deal with sewage wastes. It degrades excess residual waste products in shipboard sanitation pipework system, holding tanks and marine sewage treatment plants.

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.

CHLORINATING TABLET (200 GR)

Disinfectant used for chlorination of swimming pools, sewage and waste water systems.

ASTEROIDS

Produced from hard shells of fruit stones that have been stabilized by drying and degreasing. Ligneous residues and foreign matters like mineral or metallic particles are eliminated. No chemicals are used in the production process, raw materials are only treated mechanically. Hence the use of ASTEROIDS is perfectly safe and harmless. ASTEROIDS is produced with particle size tolerance of ϕ 1,3 to ϕ 1,7 mm.

TEST KITS

BOILER WATER TEST SET

COOLING WATER TEST SET

PHOSPHATE TEST KIT

ALKALINITY TEST KIT

CHLORIDE TEST KIT

NITRITE TEST KIT

HARDNESS TEST KIT

pH PAPER

CHLORINE TEST KIT

SULFITE TEST KIT

TOTAL IRON TEST KIT

HYDRAZINE TEST KIT

WATER IN OIL TEST KIT

COMBINED TEST KIT (WIO - TBN)

TBN TEST KIT

POTABLE WATER TEST KIT

DRINKING WATER TEST KIT

WALL WASH TEST KIT

OIL SPILL KIT

CHEMICAL APPLICATOR SET

AIR- OPERATED DOUBLE DIAPHRAGM PUMP

Maximum self-priming capacity : 5 m
Max. Air supply pressure : 7 bar
Maximum free flow rate : 50 lt/min
Maximum pump speed : 400 cpm
Air Pressure operating Rate : 25 to 100 psi
Air inlet size : 3/8 npt(f)
Fluid inlet & outlet size : 1/2 npt(f)



TELESCOPIC POLE

A - 9 Meters Fiber Telescopic pole (BASIC)
5 kg, easy to use
Includes Nozzle
B - 6 or 9 Meters Aluminium Telescopic pole (OPTIONAL)
1,5 kg - 2 kg
Includes Nozzle
C - 12-16 Meters Carbon Fiber Telescopic pole (OPTIONAL)
Includes Nozzle



WATER JET GUN

The Water Jet Gun in Tripod operates with high pressure water and compressed air. The use of high pressure water along with air generates a compressed jet of water reaching up to 30-35 meters.
Air inlet size: 1/2 npt(f)
Fluid inlet & outle size 2 npt(f)



HOSES

Suction hose : 10 meter
Air hose : 25 meter
Discharge hose : 50 meter



ER-40 DI WATER PRODUCTION UNIT

SINGLE FILTER DEMINERALIZER & TWIN FILTER DEMINERALIZER

This filter has been designed and manufactured for marine applications to produce demineralised water. It's resin content is consist of both Cations and Anions. Cation resin replaces all positive ions by hydrogen H^+ and Anions resin replaces negative ions by hydroxide OH^- . As a result, hydrogen and hydroxide generates pure water H_2O . With salt content and the conductivity at $0.05 \mu S/cm$ and silica content at $0.02 \mu S/cm$. Filter bottels hold 40 litres resin and their capacity is 250 - 900 liters/hour.



SUPPLY POINTS



CONTACT US

FACTORY 1

Aydınlı-KOSB Mah. Organik Cad. KOSB Sitesi No:1 Tuzla/ISTANBUL

T. +90 (216) 499 50 00 · Pbx. +90 (216) 499 50 02

· operations@ertekchemicals.com · www.ertekchemicals.com

FACTORY 2

Si Huang Industrial Park Xiamei Town Nan An City Fujian Province / China

T. +86 0595 - 86766763 · **Pbx.** +86 0595 - 86766761/5



SWEDISH

GERMANY

ITALY

BULGARIA

GREECE

TURKEY

MALTA

ISRAEL

JORDAN

KUWAIT

EGYPT

U.A.E

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