

# MARINE CHEMICALS

# Edge Group Marine Chemicals

## General Purpose Cleaners

1

Alkleen Buffered	Non caustic Powder alkaline tank cleaner and degreaser
Clean Fast	Accommodation Cleaner
Cold Wash	Solvent Based Emulsifier
Concrete Plus	Clean/Degreaser for concrete
Deck Bright/Clean	Wood Cleaner/Restorer
Enviro Clean	Heavy Duty cleaner degreaser, and light carbon remover
GP Cleaner	General Purpose Cleaner Degreaser
GP Cleaner L/F	Low Foam General Purpose Cleaner
Sea Clean	Tank Cleaner

## Janitorial Cleaners

2

Nature Way	Frequent Use Skin Cleanser
Sanitary Bio Blocks	Urinal Screen and blocks
Stericlean	All in one, Cleaner and steriliser
Bio Clean	Specialised Cleaner for persistent stains and odours
Bio Drain Clear	Drains, Pipes and macerators – Cleaner and deodoriser
Bio Septic LTC	Biological Liquid Toilet Cleaner
Bio Septic M	Biological Sewerage System

## Engine Room Cleaners

3

Air Cooler Cleaner	In Service cleaner for air cooler and turbo charges
Carbon Remover	Heavy Duty Carbonisation Cleaner
Elec Degreaser	Electrical Cleaners
Degreaser QD	Quick Drying Electrical Cleaner & Degreaser
De-scaling Liquid	Liquid Acid Scale & Rust Dissolver
De-scaling Powder	Dry Acid Powder for Rust & Scale Deposits
Degreasing Powder	Corrosive Classed Concentrated Alkali Powder
Degreasing Powder X	Irritant Classed Concentrated Alkali Powder
Engine Room Cleaner	Heavy Duty Engine Room Cleaner
Enviro Clean	Bilge and Engine Cleaner for OWS
Lube OS Clean	Cleaner and degreaser for lube oil separator bowls.
GP Cleaner	General Purpose Cleaner Degreaser
HP Wash	High Pressure Machine Wash Detergent
Quick Break	Quick Split cleaner for engine room and cargo tanks

# Edge Group Marine Chemicals

## Fuel & Water Treatment

4

Clean Burn	Marine Organic Fuel Combustion Improver
Fuel Biocide	Antimicrobial Agent to remove microbiological contamination in fuel
Bio Control	Microbiological control agents for use in water, oil and fuel oil systems
Alkalinity Control	Boiler water treatment
Combi-Treat	Complete Boiler Conditioner
Phos-Treat	Phosphate Treatment for Boiler Water Systems
Liqui-Treat	Complete Boiler Conditioner
Evap-Treat	Evaporator Treatment for Evaporators

## Specialised

5

Aqua Grease	Special Water Absorbing Grease
Safe Guard	Ballast Tank Coating
Enviroperse OSD	Concentrated Oil Dispersant
Rust Convertor	Heavy Duty Treatment for rust
Sediment Remover	Sediment, mud & silt remover
Soot Remover	High temperature sticks and low temperature powder
Antifoulant	Marine Safe Antifoulant for sea water cooling systems

## Maintenance Products

6

S-Z-C Wire Lube	Wire Lube
Nut Loose	High Speed Penetrating Oil
Quickcrete	Fast setting bonding and patching compound.
Super Glue	Industrial Strength Super Glue
Hand Wipes	
Oil Only Wipes	Oil Only Absorbent Wipes
Abzorba	Loose Oil Absorbent Material
GP Wipes	General Purpose Wipes
Chemical Wipes	Chemical Absorbent Wipes

## Spill Kits

7

Oil Spill Kits
Chemical Spill Kits

## Prices

8

To order contact your Edge Group representative direct or call +44(0)1843 852216

[www.edge-enviro.com](http://www.edge-enviro.com)

FAX +44(0)1843 852827

[sales@edge-enviro.com](mailto:sales@edge-enviro.com)



**General Purpose Cleaners**

**Janitorial Cleaners**

**Maintenance Cleaners**

**Fuel & Water Treatment**

**Specialised**

**Maintenance Products**

**Spill Kits**



# 1) **General Purpose Cleaners**

Alkleen Buffered	Non caustic Powder alkaline tank cleaner and degreaser
Clean Fast	Accommodation Cleaner
Cold Wash	Solvent Based Emulsifier
Concrete Plus	Clean/Degreaser for concrete
Deck Bright/Clean	Wood Cleaner/Restorer
Enviro Clean	Heavy Duty cleaner degreaser, and light carbon remover
GP Cleaner	General Purpose Cleaner Degreaser
GP Cleaner L/F	Low Foam General Purpose Cleaner
Sea Clean	Tank Cleaner





## Product Description

*ALKLEEN BUFFERED* is a 100% active dry synergistic blend of detergent silicates with wetting and dispersing agents formulated to provide the marine industry with a powerful detergent tank cleaner at the lowest possible cost. It is readily soluble in fresh or sea water safe to handle, Non-toxic and Non-corrosive to normal materials of construction.

## Uses

*ALKLEEN BUFFERED* has an excellent deodorizing and sanitizing effect and is suitable for use on most tank coatings with the exception of those based on zinc silicate. It is an ideal heavy duty detergent for such purposes as deck scrubbing, washing topsides and superstructures, cleaning reefer spaces, holds, engine rooms etc.

*ALKLEEN BUFFERED* may also be used as a safe neutralising agent after acid cleaning operations.

## Product Residues that can be cleaned

Hydrogenated vegetable oils	Castor oil
Diethanolamine	Coconut oil
Linseed oil	Ester gum
Corn oil	Neatsfoot oil
Glycerine	Cottonseed oil
Oiticica oil	Hydrocarbon film
Fish oils	Olive oil
Light petroleum residue	Synthetic resins
Gloss oil	Palm kernel oil
Plasticizers	Rapeseed oil
Hydrogenated cottonseed oil	Synthetic resins
Hydrogenated soya oil	Soya oil
Sperm oil	Tallow Tung oil

NOTE: Hydrogenated oils contain stearic acid which melts at approximately 70°C. The temperature in tanks in which these oils have been carried would have to be maintained at 71°C to 77°C for successful cleaning.

## Direction of Use

*ALKLEEN BUFFERED* is used as a solution made up in fresh sea water. The efficient operating temperature range is from 65°C to boiling point. The optimum however, may be considered to be 80°C.

*ALKLEEN BUFFERED* can be used in solution form for direct injection cleaning but is best employed using the recirculation method.

The calculated quantity of product may be dumped into the tank containing half the required quantity of very hot water. Agitation with a water hose may then be used to complete the dissolution and make up the volume prior to commencement of the cleaning operations.

## Guide to Strengths and Consumption

RESIDUES	SOLUTION STRENGTH	Consumption per 1000c/mtr
Fatty acids, alcohol tallows and fish oils	2 – 3%	200KG
Drying and semi drying vegetables oils	2 – 3 %	200KG
Non-drying vegetable oils	1 – 2%	100KG
Petrochemicals and light hydrocarbons	1%	75KG
Hydrocarbons film removal and deodorising	½%	50KG

NOTE: These consumption figures relate to multi-tank cleaning where the chemical is re-used. If only one tank is to be cleaned, the chemical consumption will be proportionately greater as a result of filling the recirculation system.

PRODUCT CODE  
CH-AB-950

# ***Alkleen Buffered***

Dry Granulated Alkaline Cleaner

PRODUCT  
DATA  
SHEET

## **Customer Care**

*ALKLEEN BUFFERED* is an alkaline material which can irritate or sensitize the skin. Care should be taken to prevent continuous or repeated skin contact especially with concentrated solutions. Avoid contact with the eyes. Do not take internally. Avoid breathing dust. Contaminated clothing should be washed before re-use. Wash thoroughly after handling.

## **First Aid**

**INGESTION:** Wash out mouth with water then drink plenty of water. Obtain medical attention.

**SKIN CONTACT:** Where skin irritation has occurred. Wash thoroughly with fresh water and apply an emollient type skin cream.

**EYE CONTACT:** Flush thoroughly with copious amounts of fresh water. Obtain medical attention.

## **Product Code**

## Product Description

A general purpose fast acting degreasing cleanser suitable for internal applications. This biodegradable formulation is particularly suitable for accommodation and food preparation areas being non-caustic and non-inflammable.

## Features

- Economic and effective
- Ideal for cleaning accommodation surfaces, food preparation and storage areas
- Toilet facility areas and fixtures
- Machinery spaces, machines and tools including machinery exhausts
- Cargo spaces including foodstuff facilities

## Technical Information

Edge produce this cleaner for the marine user where the demand is for a fast acting degreaser in confined areas. It is a suitable product to apply with high pressure washers and can be applied to most surfaces, floorings, tiles, paintwork, plastics, vinyls, etc. The cleaner is a blue liquid supplied in 25ltr containers.

## Application Instructions

For extremely heavily soiled or oily areas apply undiluted and allow 2 to 3 minutes penetration time then wash off with hot or cold water.

Heavy duty cleaning is optimally achieved by dilution in water up to 20% and applied to surfaces by brush or mop and then rinsed off after.

Lighter cleaning work is even more economically achieved by greater dilution - down to 5%

For use with a pressure washer inject at a dose rate between 2 to 5%.

## Customer Care

Clean Fast carries irritant symbol.

### **Hazard Advice;**

R-36/37/38 Irritating to eyes, respiratory system and skin.

### **Precautions;**

S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

### **Transport;**

IMO class/page Not Listed

UN No. Not Listed

ADR Not Listed

### **Storage;**

Keep in a cool, dry, ventilated place.

Keep containers closed.

Keep away from acids.

### **Packaging;**

1, 5 & 25ltr Containers



## Product Description

Liquid compound containing petroleum solvents, emulsifiers and surfactants

## Features

- Highly effective solvent – rapid penetration
- Loosens and breaks up deposits
- Strong emulsifying action
- Rapidly rinsed
- Quick and easy to use – saves labor costs
- Leaves oil and grease free surfaces
- Non corrosive, low toxicity product

## Applications

- Removal of mineral oils and grease, degreasing of surfaces made from all metals, glass, plastic, wood and painted surfaces
- Cleaning & Degreasing of:
  - Machinery Parts
  - Diesel engine exteriors, compressor exteriors, etc.
  - Tank tops, bulkheads, decks, plates etc.
  - General deck and engine room degreasing
  - Spot cleaning and degreasing of oil tanks, bunker tanks, etc.

## Directions For Use

Apply by soaking, spraying or combined with scrubbing

- Soaking: Dip parts to be cleaned into a bath of undiluted Coldwash. Allow deposit to be broken up and loosened before removal, then rinse off with water.
- Spraying: Apply Coldwash neat and allow product to soak into the deposits or 15-20 min before rinsing off with water. For stubborn deposits some brushing may be necessary to accelerate removal.
- Scrubbing: Use Coldwash neat, and agitate by scrubbing where soiling is not recent, is thick and/or trodden in. Rinse off with water.

## Customer Care

- Product should not be ingested or inhaled
- Gloves and safety goggles should be worn
- Store away from ignition sources and extreme heat
- Neat product should not be heated above 65°C

## Packaging

1ltr, 5ltr, 25ltr containers



## Product Description

Concrete Plus is a concentrated cleaning liquid, based on a special blend of detergents, surfactants, rust inhibitors, brightening and acid agents. It is specially developed to clean concrete floors, paving, brickwork and stones. In addition, it will also remove unsightly concrete scaling, rust, plaster, oils, mosses and other general soiling.

## Features

- Concentrated formulation
- Pleasant odour, no smoking fumes
- User friendly, simple to apply
- Versatile, removes a multitude of substances
- Environmentally friendly
- Bio-degradable

## Directions for Use

Concrete Plus must be diluted, in a bucket, with cold water from 1:3 to 1:10 depending on the severity of surface contamination. The solution is then firmly applied by brush or scrubber. Rinse with cold water immediately after cleaning.

## Notes;

- Always test the resistance of the surface to be cleaned before commencing cleaning.
- Do not allow Concrete Plus to dry onto any surface
- Not suitable for ferrous metals

## Packaging

1ltr, 5ltr, 25ltr containers





## Product Description

Deck Bright is an acid based cleaner, incorporating a detergent for removal of dirt and the acid to brighten the wood.

### Application:

- It will remove rust stains from wood surfaces, painted surfaces and vitreous enamels, porcelain, terrazzo, ceramic tiles, glass, etc.
- Can be used for the removal of light rust from iron, the removal of tarnish from aluminium, copper, brass and chrome as well as steel and stainless steel.
- Gives a protective pre-treatment on iron and steel before painting.
- For removal of discoloration on stainless steel or epoxy coated tanks.
- Use for removing partly set cement & lime.

### Advantages / Benefits

- Biodegradable & Non-flammable
- Cleans ferrous metals and inhibits further corrosion.
- Removes tarnish from non-ferrous metals.
- Makes aluminium bright and clean.
- Removes rust stains from painted surfaces.
- Not only is a protective coating formed on steel after use of Rust Stain Remover it also provides a surface key to which paint readily adheres.

## Direction of Use

Deck Bright can be used neat or diluted 1 part Deck Bright, 1 part Water. Brush the solution onto the deck and leave for 15 – 30 minutes, after this time wash off with hose and deck brush.

Being acid based Deck Bright should be used from a plastic bucket. This should be borne in mind if Deck Bright is to be diluted; it should be added to water and not vice-versa.

## Customer Care

Causes burns (contains phosphoric acid) Personnel should wear the appropriate safety outfit i.e. acid-resistant protective clothing, close fitting goggles and footwear.

## Transport;

IMO Class 8, page 8194

UN No. 1805

ADR 8, 66☐C

## Hazard Advice;

Warning symbol is corrosive.

## Hazards;

R-34 Causes burns.



## Product Description

This all natural multi-purpose cleaner/degreaser has a scientifically advanced formulation enabling it to be totally non-toxic and fully bio-degradable to give maximum safety to the user and the environment.

A special marine feature is its ability to allow it to pass through an oily water separator without interfering with the separating processes.

## Features

- Environmentally friendly.
- Non flammable.
- Water miscible.
- Promotes pleasant odour.
- Can be disposed of without risk of water pollution.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing oil for reclamation.
- Economical dilution rate: use with 1 to 15 parts of water.
- Removes oils, carbon deposits, greases, sludges, polymer compounds, traffic film, general dirt and grime.

## Applications

- Enviro Clean is a multi-role product that has uses in many areas of cleansing and degreasing and can be used on most vinyl's, fabrics, plastics, fiberglass and other surfaces.
- It has the ability to remove greases, oils, sludge, tars, polymers compounds, carbon deposits, fiberglass resins, as well as general greases and grime.
- In the engine room it has proved to be an exceptional degreaser plus an excellent sugi product for paintwork.
- Used neat for light carbon removal.
- Can be used in soak tanks.
- Excellent sonic tank cleaner.
- Used in high pressure cleaning equipment.
- Cargo tank cleaning after mineral oils and petroleum based chemicals.
- Hydrocarbon tank freeing of cargo tanks.
- Cargo tank cleaning after animal, vegetable and fish oils.
- General accommodation cleaning.
- Cleaning of engine room double bottom deep tanks and bilges.

## Directions for Use

General Engine Room Cleaning - Enviro. G.P. can be used not only as a heavy duty degreaser but also for dirt and grime on paint work, as a general sugi. It can be applied by brush, hand spray, used in ultrasonic tanks, immersion, soak tank and high and low pressure appliances. It can be used neat or diluted by up to 15 parts of water depending on the amount of soiling to be removed.

## Technical Information

After cleaning engine room, due to the unique property of this product the slop water may be passed directly through the oily water separator.

For best results in cleaning use hot or warm water. Between 40°C and 60°C.

## Tank Cleaning

Enviroclean has the ability due to its unique properties of being able to clean mineral oil and vegetable/animal oils, with equal efficiency. It is a product that gives total hydrocarbon freeing due to the product having no petrol chemical solvents.

*Direct injection method* dose rates between 0.3% and 3%, i.e. 3 litres per ton wash water to 30 litres, for best results use hot water: 20°C to 50°C.

*Recirculation method* - dose rate between 2% and 6%. Wash for 1 to 4 hours at a water temperature of 20°C to 50°C to give the best results.

*Spray Method* - Spray neat over tank walls, allow to soak for 30 minutes then rinse with hot water between 20 and 50 degrees celsius for about 45 to 60 minutes.

*Spot Cleaning Method* - Spray neat over areas of contamination, allow to soak for 30 minutes then wash off with hot water where possible.

## Customer Care

This product can be classified as non-hazardous in accordance with the 1984 CPL Regulations and when assessed under the 1988 COSH H regulations.

## Hazard Advice

R-36 Could be irritating to eyes and skin.

## Precautions

S-23 Do not breathe spray.

S-36/37/39 Wear suitable protective clothing.

S-26 In cases of contact with eyes, rinse immediately with water.

## Transport

IMO. Class/page Not Listed

UN No. Not Listed

ADR Not Listed

## Storage

Store in a cool, dry environment, at a temperature between 10°C to 40°C.

## Product Description

This new multi purpose, cleaner degreaser, made from a new advanced formulation, giving high degreasing and cleaning power, but being totally biodegradable, non-toxic, phosphate free, giving no pollution and toxicity to marine life. This all water based product is acceptable for use in marine engine rooms and to be passed through an oily water separator after splitting.

## Features

- Totally biodegradable.
- No phosphates, giving protection to marine life.
- Non-flammable.
- Water miscible.
- Non-pollutant to the environment.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing the oil.
- Extremely concentrated product, giving a maximum dilution rate of 1 to 200 part of water.
- Can be considered a light carbon remover.
- Extremely good all purpose cleaner, for all types of compounds.

## Applications

- GP Cleaner can be used in the engine room, for heavy contamination, grease and oils.
- Suitable on most types of bricks, including vinyl's, plastic, fibre glass and other surfaces.
- Can be used as a light carbon remover, by spraying on neat or circulation and heating in a soap tank.
- Has excellent properties for cleaning and degreasing paint work as a diluted product.
- Can be used in sonic tank cleaning equipment.
- High pressure cleaning equipment.

- Concentrated enough to be used as a cargo tank cleaner.
- Can be used for cleaning double bottom tanks.
- Hydro-free, hydro carbon tank freeing of cargo tanks after hydro carbons.

## Directions for Use

General engine room cleaning, GP Cleaner can be used diluted for general degreasing. It should only be used concentrated on very heavy contamination or for carbon removal. To make application and dose rates easier we have given a list below of dose rates for various types of application.

## Customer Care

GP Cleaner in a concentrated form is a strong alkaline product. The hazard warning symbol is irritant.

## Hazard Advice;

R-36/38            Irritating to eyes and skin.

## Precautions;

S-2/26/36/37/39            keep out of reach of children. In case of contact with eyes, rinse with plenty of water. Wear suitable protective clothing, gloves and eye/face protection.



## Product Description

This new multi purpose, low foam cleaner degreaser, made from an advanced formulation, giving high degreasing and cleaning power, but being totally biodegradable, non-toxic, phosphate free, giving no pollution and toxicity to marine life. This all water based product is acceptable for use in marine engine rooms and to be passed through an oily water separator after splitting.

## Features

- Low Foam
- Totally biodegradable.
- No phosphates, giving protection to marine life.
- Non-flammable.
- Water miscible.
- Non-pollutant to the environment.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing the oil.
- Extremely concentrated product, giving a maximum dilution rate of 1 to 200 part of water.
- Can be considered a light carbon remover.
- Extremely good all purpose cleaner, for all types of compounds.

## Applications

- GP Cleaner L/F can be used in the engine room, for heavy contamination, grease and oils.
- Suitable on most types of bricks, including vinyl's, plastic, fibre glass and other surfaces.
- Can be used as a light carbon remover, by spraying on neat or circulation and heating in a soap tank.
- Has excellent properties for cleaning and degreasing paint work as a diluted product.
- Can be used in sonic tank cleaning equipment.

- High pressure cleaning equipment.
- Concentrated enough to be used as a cargo tank cleaner.
- Can be used for cleaning double bottom tanks.
- Hydro-free, hydro carbon tank freeing of cargo tanks after hydro carbons.

## Directions for Use

General engine room cleaning, GP Cleaner L/F can be used diluted for general degreasing. It should only be used concentrated on very heavy contamination or for carbon removal. To make application and dose rates easier we have given a list below of dose rates for various types of application.

## Customer Care

GP Cleaner L/F in a concentrated form is a strong alkaline product. The hazard warning symbol is irritant.

## Hazard Advice;

R-36/38      Irritating to eyes and skin.

## Precautions;

S-2/26/36/37/39      Keep out of reach of children. In case of contact with eyes, rinse with plenty of water. Wear suitable protective clothing, gloves and eye/face protection.





## Product Description

A traditional product for cleaning double bottom tankers with limited agitation using the roll clean method. The product is a concentrated detergent emulsifier.

## Features

- Wide application range.
- Easy to use.
- Highly concentrated.
- Economical, can be diluted for general cleaning.

## Applications

- General cleaning and degreasing of engine room spaces and bilges.
- Double bottom and fuel tanks: cleaning and gas freeing.
- Cargo tanks: cleaning and gas freeing after crude and other mineral oils.
- Cleaning and degreasing machinery i.e. engine cooling water systems, fuel and lubrication oil, heat exchangers and all types of boilers.

## Directions for use and dose rates

Can be used for spot cleaning with application by brush or hand spray undiluted then left for 20 minutes before being washed off with water. For roll cleaning of fuel tanks the dose depends on the fuel oil viscosity as set out:

### Roll Cleaning

<u>Fuel oil</u> <u>viscosity at 50°</u>	<u>Seaclean per</u> <u>tonne of water</u>
320 or above	1 litre
180 up to 320	0.75 litre
30 up to 180	1 litre
Up to 30	0.5 litre

Cleaning of cargo tanks that have carried mineral oils:

With the injection method into the tank washing machines use between 0.1% to 2.0% of Seaclean mixed with the washing water. If using the recirculating method with tank washing machines use a dose rate of 0.5% to 3.0% Seaclean with the washing water.

N.B. Seaclean works best when the washing water it is mixed with is heated above 50°C. A temperature of between 65 to 80°C is recommended.

Can be used for degreasing the cooling water systems of marine diesel engines either in service at a dose of 5% of total cooling water or out of service at a dose rate of 2% of total cooling water.

## Customer Care

Adequate ventilation must be provided

## Transport

IMO Class/page	Not listed.
UN No.	Not listed
ADR	3, 32°C

## Hazard Advice;

R-36/37/38	Irritating to eyes, respiratory system and skin.
R-40	Possible risks of irreversible effects.

## Precautions;

S-23	Do not breath spray.
S-36/37/39	Wear suitable protective clothing, gloves and eye/face protection



## 2) *Janitorial Cleaners*

Nature Way	Frequent Use Skin Cleanser
Sanitary Bio Blocks	Urinal Screen and blocks
Stericlean	All in one, Cleaner and steriliser
Bio Clean	Specialised Cleaner for persistent stains and odours
Bio Drain Clear	Drains, Pipes and macerators – Cleaner and deodoriser
Bio Septic LTC	Biological Liquid Toilet Cleaner
Bio Septic M	Biological Sewerage System



## Product Description

A new concept in skin cleaning. This semi-gel skin cleaner contains natural ingredients such as citrus oil which has properties that not only enable it to remove the most severe grime but also help to keep the skin in good condition. It contains no petroleum or hydrocarbon solvents whatsoever, which means it can be used time after time in complete safety. To enhance the removal of severe grime we have added a scrubbing agent which promotes an even faster cleaning action.

## Features

- Gives new skin care and protection.
- Effective on all types of industrial grime.
- Can be used safely day after day.
- Versatile, use in hot, cold, hard or soft water.
- Mild and antiseptic.
- Promotes good skin condition.
- Contains a scrubbing agent for severe grime.
- No petroleum solvents.

## Applications

- ◆ For the removal of all industrial grime, oil and grease from the skin.

## Directions for Use

Natures Way skin cleaner should be gently massaged into the soiled skin, free from any water. It then can be wiped off with a paper towel or rinsed with water and then thoroughly dried on a towel or tissues.

## Customer Care

### Hazards

R-36 Irritating to eyes.

### Precautions

S-26 In case of contact with eyes, rinse immediately with water.

### Transport

IMO Class/page	Not Listed
UN No.	Not Listed
ADR	Not Listed

### Packaging

5 litre and 1 litre containers.

### Storage

Store in a cool dry environment.



## Product Description

This unique product is a formulation of ecologically safe enzymes that can eliminate odours and blockages as well as cleaning the urinal.

The enzymes are linked with special surfactants and deodorisers.

## Features

- Eliminates odours and blockages from urinals.
- Economical - lasts up to 30 days or 1,000 flushes.
- Gives continuous and effective maintenance of urinals.
- Pleasant fragrance.
- Ideal for small high volume toilets.
- Eliminates unsightly stains.

## Applications

- ◆ All types of urinals and toilets.

## Technical Information

The enzymes continuously break down the organic waste and by doing so eliminate the source of unpleasant odours. This also helps to reduce scale build-up.

## Products Available

Screen and Block	Carton of 12
Toilet Hangers	Carton of 24

## Customer Care

Bio-Blocks carry no hazardous warning label.

## Hazard Advice

R-36/38	Could be irritating to eyes and skin
---------	--------------------------------------

## Precautions

S-2	Keep out of reach of children
S-36/37/39	Wear suitable protective clothing, gloves.

## Transport

IMO Class/page	Not listed
UN No.	Not listed
ADR	Not listed





## Product Description

A fast acting cleaner and steriliser suitable for use in accommodation, galley, fridges and store room.

## Features

- A strong fast acting cleaner.
- Sterilises all surfaces it comes in contact with.
- Effective but economical.
- Suitable for use in the food industry.
- Non Caustic.
- Non Flammable.
- Contains no dyes.
- Leaves a pleasant smell after use.
- Dries leaving a smear free surface.

## Technical Information

This product is produced as a cleaner, steriliser for all accommodation areas. It can be used with hot or cold pressure washers or cloth, mop and bucket.

## Directions for Use

Heavy duty cleaning is achieved by dilution in water of between 2 - 5% of Stericlean and then applied to surfaces by brush, mop or cloth and rinsed off with clean water after.

For light cleaning a dilution of between 1 - 3% is recommended, and applied in a similar way as above.

For jet washers and high pressure washers, injection dose rate of 1 - 2% is adequate.

## Customer Care

Stericlean carries an irritant symbol.

## Hazard Advice;

R-36 and R-38 Irritating to eyes and skin.

## Precautions;

- |            |  |
|------------|--|
| S-2        | Keep out of reach of children.                                     |
| S-26       | In case of contact with eyes, rinse immediately with water.        |
| S-36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |

## Storage;

Store in a cool dry environment. Protect from frost. Keep container closed. Avoid Acids.

## Packaging;

25 and 250 litre containers.

## Transport;

- |                |            |
|----------------|------------|
| IMO class/page | Not Listed |
| UN No.         | Not Listed |
| ADR            | Not Listed |



## Product Description

The latest in cleaning technology for the marine industry, a special blend containing enzymes, surfactants and bacterial cultures.

## Directions for Use and Dose Rates

Carpets and upholstery, make a solution in a container of 1:1 mix with warm water. Remove surplus soil with cloth then gently brush solution over the soiled area and leave to dry naturally. When dry, vacuum area. On severely soiled areas this may have to be repeated.

Tiles, grouting, concrete, decks and bulkheads, make a solution of 1:1 mix with warm water and wash the soiled areas with sponge or brush, scrub the grouting to remove as much mould as possible and wipe off. Re-wash area with a solution of Bio-clean, do not rinse off, repeat the following day until all black mould has gone.

Toilet and Urinal Floors; to control odours in toilet areas and keep clean, wash daily with a solution of Bio-clean 1:20 dilution with mop and bucket. Sinks and Drains use undiluted in sink and drain traps to keep clear and control odour.

## Customer Care

Bio-clean carries no hazard warning label. The bacteria utilised in Bio-clean are non-toxic, non-pathogenic (i.e. they will not cause any diseases), non-contaminating, non-acidic, and non-caustic.

All bacteria are naturally occurring and are quality controlled to assure purity and safety. All soaps and surfactants are non-hazardous and biodegradable. Simple hygiene practices are recommended after using Bio-clean. Some individuals may be sensitive to related chemical compounds present in the product. Direct contact with the skin should be avoided if irritation is noted. Do not ingest.

## Applications

- Upholstery and carpets; removes persistent stains and odours that other cleaners cannot.
- Removes - milk, beer, urine, vomit, soft drinks, blackcurrant, pickles, beetroot, wines and many other food stains and odours.
- Cleaning bathrooms; showers/sinks etc., removes black mould and body fats from tiles and grouting.
- Accommodation, bathroom and toilet floors.

## Features

- The latest in cleaning technology.
- The natural and environmental way to clean.
- Specially formulated for removal of stains and odours.
- Completely Bio-degradable.
- Totally harmless and user friendly.
- Simple application.
- Economical - dilute 1:1 to 1:20 with water.

## Hazard advice

R-36/38 Irritating to eyes and skin.

## Precautions

S-36/37/39 Wear suitable protective clothing; gloves and eye/face protection.  
S-2 Keep out of the reach of children.

## Transport

IMO Class/page	Not Listed
UN No.	Not Listed
ADR	Not Listed

## Storage

Store in a cool dry environment. Avoid temperatures above 50°C and below 5°C.

## Packaging

1ltr, 5ltr & 25ltr containers

## Product Code

CH-BC-505



## Product Description

A concentrated Bacteria Enzyme Tablet containing 7 billion bacteria cultures that digest waste. They are specifically formulated to break down fats, oils, greases, food waste particles, hair, paper and most organic matter.

Bio-Drainclear tablets are a concentrated blend of aerobic and anaerobic bacteria specially selected and adapted for the ability for the ability to breakdown and digest household waste. Supported by enzymes, nutrients and carriers.

## Features

- Used regularly prevents blocked and slow running drains
- Controls odour caused by build up of waste
- Helps septic tanks work more efficiently
- Non-toxic, no harsh chemicals
- Non-flammable, Totally environmental

## Applications

- Sinks, baths and showers
- Syphon traps, Laundry drains
- Galley scuppers or kitchen drains
- Toilets/Urinals, Grease traps, Waste pipes
- Macerators or garbage disposal units

## Directions for use

Use one Bio-Drainclear tablet every week for normal maintenance. Dosing of sinks, showers and baths, if drains are slow running, dose once a day until running more freely. If drain is still slow running after a week call a plumber to remove any physical obstruction.

The best time to dose is last thing in the evening, place tablet in sink or drain and run warm water until dissolved and leave overnight. Toilets and urinals - drop two tablets in toilet bowl, leave to dissolve and flush urinals. Two tablets in each urinal weekly for maintenance doses. Macerators - small domestic types, two tablets a week and run warm water, switch on for a second then leave overnight, repeat if persistent odour prevails.

## Areas of Application

- Domestic kitchens and bathrooms
- Hotels, Restaurant, Commercial Kitchens
- Butchers shops, Slaughter houses
- Meat processing factories
- Fish processing plants
- Milk and fat processing industries
- Sewerage treatment plants, Cess pits

## Customer Care

Bio-Drainclear tablets contain naturally occurring non-genetically engineered bacteria which has been subjected to stringent antibiotic screening. Simple hygiene practices are recommended for use. Some individuals may be sensitive to related compounds present in the product, therefore direct contact with the skin should be avoided if irritation is noted.

Do not ingest the product.

## Hazard Advice

R-36/38 Could be irritating to eyes and skin.

## Precautions

S-36/37/39 Wear suitable protective clothing.  
S-2 Keep out of reach of children.

## Transport

IMO. Class/page	Not listed
UN No.	Not listed
ADR.	Not listed

## Storage

Store in a cool dry environment, avoid temperatures above 40°C and below freezing.

## Packaging

Tubes of 24 tablets.  
1 kg plastic container (approx. 385 tabs)

## Product Code

CH-DC-510



## Product Description

A unique biologically blended formulation with chemical surfactants, cleaners and selected bacterial cultures.

## Features

- Keeps toilets clean and pipe work free of blockages.
- Removes body grease from showers and keeps water traps running freely.
- Enhances the ships sewerage treatment plant.
- Cleaning of all types of toilets and urinals, showers, sinks and bath traps.
- Kills bad odours in toilet areas.

## What is Bio-Septic liquid toilet cleaner?

Bio-Septic (LTC) is a concentrated liquid blend of living aerobic and anaerobic bacteria specially selected and adapted for their ability to produce enzymes necessary for degradation of typical restaurant and household wastes which cause blockage problems in sanitation systems. The bacteria digests grease, fats, sewage, starch and other organic compounds which drain into the sewage treatment plant. It reduces and controls strong odours.

The bacteria is mixed with a special formulation of chemical surfactants which do the initial cleaning of the sanitary ware. What happens to the waste is that it's turned into carbon dioxide and water. When the bacteria have finished their job, their food source is exhausted and they die.

## Directions For Use and Dose Rates

Use daily as a normal toilet cleaner: Lift up seat, direct nozzle of container downwards and squeeze container while directing jet to cover the surfaces of the toilet bowl. Scrub vigorously round the bowl with toilet brush and leave for as long as possibly before flushing.

Use daily down drains, sinks and shower scuppers etc. to keep them free from grease fats and other solid waste materials.

For heavily soiled or blocked pipes use the heavy duty product Bio-Septic (I) then maintain in free condition with Bio-Septic LTC.

The performance of the product works best within the pH range 5.5 and 8.5 and at a temperature range of 10°C to 43°C. Extreme pH or temperature should be avoided. Cold temperature reduces the effectiveness; no activity can be expected below 4°C. Harsh chemicals such as acids, caustics and other toilet cleaners should not be used as this will kill off the bacterial activity of the product.

## Customer Care

Bio-Septic (LTC) contains naturally occurring non-genetically engineered bacteria which have been subjected to stringent antibiotic screening. Simple hygiene practices are recommended for use. Some individuals may be sensitive to related chemical compounds present in the product. Direct contact with the skin should be avoided if irritation is noted. Do not ingest the product.

## Product Code

CH-TC-405





## Product Description

A formulation containing active bacterial strains of cultures, specifically developed to deal with sewage wastes.

## Features

- Clears blocked pipes and sewage systems from organic waste matter.
- Keeps sewage treatment plants working at optimum efficiency.
- Re-activates sewage treatment plants after shut down from shock treatment by harsh chemicals.
- Totally controls the bad odours from overloaded systems.
- Cost-effective, saves time and manpower.
- Cuts out the need for hazardous chemicals.

## Applications

- ◆ Restarting sewage treatment plants.
- ◆ Keeping overloaded treatment plants working at a efficient level.
- ◆ Cleaning sewage holding tanks etc.
- ◆ Keeping sewage system pipe work from blocking up.
- ◆ Unblocking sewage pipe work.

## Directions for Use

Soil Pipe Cleaning - using a clean container, make up a liquid solution using 2 tablespoons of product and hand hot fresh water about 5 litres at (35°C), mix and stand for 2 hours (stirring occasionally) for the bacteria to activate.

This mixture can now be used to dose sinks, scuppers, shower drains, waste disposal units, urinals, toilets etc. using about 0.5 litre per unit. This can be done every 24 hours until blockage is cleared. Then a maintenance dose once or twice a week can be used to keep pipes in a clean condition and blockage free.

For severely blocked pipes, isolate pipe and fill with a solution and leave for 48 hours. Before draining repeat if blockage persists.

## Sewage Holding and Treatment Tank Cleaning:

- 1) Fill tank with water then pump out to clear excess soils before cleaning.
- 2) Fit on air line in holding tanks with sufficient volume to gently turn over the mass of water in the tank. In sewage treatment plant use normal air supply.
- 3) Fill tank to 85% capacity if at sea or 95% if no ship movement.
- 4) Turn on air supply.
- 5) Mix up approximately 0.5 Kg of Bio-Septic in a clean container with 5 litres of fresh warm water (35°C.) This should be mixed and left to stand for 30 minutes before dosing tank. Dose rate is 0.5 Kg per 400 litres capacity of tank. Minimum dose per tank 4 Kg.
- 6) Dosing can be done from the nearest toilet.
- 7) Top up tank and leave for 48 hours with air on, to help circulation, the performance will improve when heat is applied to the water.
- 8) After 48 hours open up tank and check how cleaning is progressing. if not completely clean continue for another 24 hours, with additional doses of 1 Kg per 1000 litres of Bio-Septic.
- 9) When cleaning is completed, flush out tank, re-fill and pump out to remove any sediment.

## Overloaded or Start-up of Sewage Treatment Plants

To re-activate and keep plant at optimum operating efficiency dose Bio-Septic directly into the tank or via the nearest toilet. Dosage to reactivate the plant uses 0.5 to 1.0 Kg of Bio-Septic (M) this should be mixed with 5.8 litres of warm fresh water and left to stand for 30 minutes for the bacteria to activate, then dose into tank.

Maintenance dosing to keep system operating efficiently and for overloaded systems dose 100 grams and 250 grams weekly.

## Technical Information

Bio-Septic (M) is formulated to degrade excess waste in shipboard sanitation pipework systems, marine sewage treatment plants, sewage treatment plants and sewage holding tanks. The specially selected strains in Bio-Septic can digest grease, fats, sewage, starch and other organic compounds. It increases the rate degradation of paper and proteins, hence reducing the odours they cause. The bacteria in Bio-Septic colonise on the soil waste in the pipe work and soil tanks, digesting the waste until it is gone and the pipes are clean. It assists the sewage treatment plant by increasing the biological activity so that the plant can deal with far more waste and at the same time it is reducing the obnoxious smell from the back pressure of an overloaded system. Harsh chemicals such as acids, caustics and toilet cleaners should not be used as this kills off the bacterial activity of the product. However if lime scale builds up in the toilet we suggest putting a concentrated dose of acid down once a week. To do this we provide tables, to control dosing. The performance of Bio-Septic works best within the pH range of 5.5 and 8.5 and at a temperature range of 10 - 45 degrees Centigrade. Extreme pH or temperature should be avoided. Cold temperature reduces the effectiveness. No activity can be expected below 4.5 degrees Centigrade.

## Customer Care

Bio-Septic contains naturally occurring non-genetically engineered bacteria which have been subjected to stringent antibiotic screening. Normal hygiene practices are recommended when using these products. Bio-Septic conveys no hazard symbol.

## Hazard Advice

R-36/37/38 Irritating to eyes, respiratory system and skin.

## Precautions

S-7 Keep container tightly closed

S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## Transport

IMO. Class/page	Not listed
UN No.	Not listed
ADR	Not listed

## Storage

Keep container tightly closed. Keep cool, dry and well ventilated. Keep away from oxidisers, heat and flames.

## Packaging

12 kilogram containers.

## Product Code

CH-BM-525

### 3) **Engine Room Cleaners**

Air Cooler Cleaner	In Service cleaner for air cooler and turbo charges
Carbon Remover	Heavy Duty Carbonisation Cleaner
Elec Degreaser	Electrical Cleaners
Degreaser QD	Quick Drying Electrical Cleaner & Degreaser
De-scaling Liquid	Liquid Acid Scale & Rust Dissolver
De-scaling Powder	Dry Acid Powder for Rust & Scale Deposits
Degreasing Powder	Corrosive Classed Concentrated Alkali Powder
Degreasing Powder X	Irritant Classed Concentrated Alkali Powder
Engine Room Cleaner	Heavy Duty Engine Room Cleaner
Enviro Clean	Bilge and Engine Cleaner for OWS
Lube OS Clean	Cleaner and degreaser for lube oil separator bowls.
GP Cleaner	General Purpose Cleaner Degreaser
HP Wash	High Pressure Machine Wash Detergent
Quick Break	Quick Split cleaner for engine room and cargo tanks



## Product Description

A new type of advanced water-based formulation giving powerful cleaning with consideration to the environment. Developed for cleaning diesel engine air coolers, scavenger air systems and turbochargers.

## Application

- In service cleaning of diesel engine air cooler and scavenger truck systems
- In service cleaning of diesel engine turbochargers/superchargers.
- Hand cleaning of cooling systems when opened up.
- Soak bath cleaning for heavy greases and light carbon removal from machinery parts.

## Advantages / Benefits

- Biodegradable, Non-toxic, Non-caustic
- Phosphate free giving better protection to marine life.
- No hydrocarbon solvents
- Splits after use into oil water phases
- Corrosion inhibitor. Helps protect metal surfaces
- Water miscible and free rinsing
- Non-flammable, Non explosive
- Economical dilution rate, 1-5 parts of water. Keeps air cooler at maximum efficiency, reducing down time.

## Direction of Use

- In service cleaning: Can be used in most types of spray injection system, in a diluted mix, 1-5 parts fresh water. The mixture is injected up stream of the heat exchanger and followed by fresh water.
- The amount of mixture needed to clean on air cooler, uses the cross-sectional area of the cooler to be cleaned, and uses about 3ltr of mixture for every sq mtr of cooler or use the table below.

• HPEngine 20% mix of ACC with Freshwater	
• 5,000 to 10,000	3ltr mixture
• 10,000 to 25,000	5ltr mixture
• 25,000 plus	6ltr mixture
- The corrected amount of solution is then put into the dosing pot and injected up stream of the air cooler/turbocharger. After 5mins a similar quantity of freshwater can be injected to rinse off any remaining residue.
- The frequency of application cleaning will depend on the condition of the air coolers. If no in service cleaning has been done for sometime then we suggest cleaning every 24hrs, at least and monitor cooler temperature, to see if effective. Then after initial cleaning, reduce to lesser frequency, for example every 48hrs

## Product Code

CH-AC-705



## Product Description

Carbon remover is a powerful cleaner formulated to remove obstinate carbon deposits - corrosion inhibitors are included in the formulation to reduce structure wear.

## Features

- Economic and effective - it can be recycled.
- Fast acting in removing energy absorbing carbon deposits.
- Can be used effectively cold.
- Eliminates expensive man hours used on scraping.
- Quickly and efficiently puts machinery back to optimum performance reducing wear and fuel bills.

## Applications

- ◆ Cleaning of engine parts. e.g. Pistons, Piston Rings, Valves, Connecting Rods, Injectors and many other parts.
- ◆ Removing carbon based deposits from fuel and lube oil filters.
- ◆ Removing carbon type deposits from burner cups, fuel injectors and other components fouled by carbon, resins and varnishes.

## Directions for Use and Dose Rates

Two methods of use are recommended the choice of which dependant on the items to be cleaned.

### Method One:

To clean machinery parts that are portable the Soak Tank method is appropriate. The recommended method of cleaning parts is to immerse them in a soak tank. The soak tank must be prepared prior to immersion of parts.

- 1) Tank half filled with fresh water.
- 2) Carbon Remover stirred into the water to the desired level.
- 3) The tank left for one hour. This allows a water layer to form over the solution and thus reduce the heavy evaporation which is a feature of the solvent.
- 4) The items for cleaning are then dipped in to the cleaner (a wire basket or tongs) are needed. Time required in the solution will vary from an hour to steeping overnight dependant on the degree of fouling.
- 5) After removal the cleaned items must be rinsed with water before handling.

### Method Two:

To clean in situ machinery Carbon Remover can be used without dilution and circulated internally though the machine. The following method is recommended:-

- 1) Compressed air or steam is passed though the system to remove loose deposits and oil residues.

PRODUCT CODE  
CH-CR-205

# Carbon Remover

Heavy Duty Carbonisation Cleaner

PRODUCT  
DATA  
SHEET

2) Using a tank / drum and circulating pump connect up the system to be cleaned. Fill the system with neat carbon remover and circulate.

3) Circulate the carbon remover for 4 to 24 hours or until the contaminant has gone. The time scale to clean will depend very much on the type of deposits involved.

4) To enhance the cleaning efficiency heat the carbon remover up to 50 degrees Celsius, higher temperatures will promote evaporation.

5) When system is clean drain out carbon remover and flush the system with fresh water.

## Customer Care

Hazard warning label is harmful.

## Hazard Advice

R-40	Possible risk of irreversible effects.
R-20/21/22	Harmful by inhalation, contact with skin and if swallowed.
R-36/37/39	Wear suitable protective clothing; gloves and eye/face protection.

## Transport

IMO Class 6.1	page 6205
UN number	2810
ADR	6.1, 24°C

## Storage

Keep in cool dry ventilated place. Keep containers closed. Keep away from oxidisers, heat, flame and acids.

## Packaging

25ltr containers.



# ELECTRICAL CLEANERS

PRODUCT  
DATA  
SHEET

## ELEC Degreaser

### Electrical

#### Product Description

Elec Degreaser is a Solvent Cleaner/Degreaser. It is a slower drying solvent cleaner. Use, as supplied, as a wipe or brush-on solvent for the cleaning of metal prior to painting. A very good, low toxicity, high flash point degreaser for general cleaning duties. Can be used on electric motors and machinery. Recommended for use in mechanically agitated tank or ultrasonic cleaning systems. Flash point 63oC. Drying time approx.20-30 mins.

#### Features

- SAFE TO USE ON ALL METALS FOR DEGREASING AND CLEANING
- REMOVE DIRT, OIL, GREASE, DUST ETC.
- ALL 1,1,1- TRICHLOROETHANE FREE
- NON FLAMMABLE SOLVENT BASED CLEANER/DEGREASER

#### Packaging

5,25 & 205 Lit drums

#### Product Code

Elec Degreaser	CH-ED-960
Elec+	CH-ED-965
Degreaser Quick Dry	CH-DQ-120

## ELEC+

#### Product Description

Elec+ is NON FLAMMABLE SOLVENT BASED CLEANER/DEGREASER, DOES NOT CONTAIN CHLORINATED SOLVENTS

*Elec+* is highly refined non aromatic solvent cleaner specifically formulated for use on electric and electronic components where the use of traditional chlorinated hydrocarbon solvents is restricted for toxicity or operational reasons.

Elec+ may also be used as a degreaser for metals, plastics and painted surfaces including chlorinated rubber finishes. Elec+ may also be used for the removal of hydraulic oils and other soiling on a wide range of hard surfaces. Elec+ is not aggressive to viton or neoprene rubber. Flash Point 62o C / Auto ignition temp.> 250oC. Dielectric constant at 25'C is 2.021.

Generally used at normal ambient temperatures. Test surface prior to large scale application. Use as supplied without dilution.

Apply by brush/spray or in a diptank. Agitate stubborn deposits with soft brush before allowing to dry naturally or with air assistance. Sometimes an increased evaporation rate is achieved by using warm air or higher operating temperatures. Elec+ can also be used very efficiently in ultrasonic tank systems where cavitation caused by ultrasonics provides for a rapid and thorough degreasing and cleaning operation. At 22oc the evaporation rate of Elec+is 9g/m2/hr which may be increased to 45g/m2/hr at 40oc. This latter temperature represents a practical upper operating temperature limit being sufficiently below the flash point to give an adequate safety margin both from flammability aspects or explosive risks. Vapour extraction is recommended when using warm Elec+.



## Product Description

A high quality quick drying chlorinated solvent, being formulated to be non-flammable.

## Applications

Cold cleaning and degreasing of mechanical equipment and machine parts without the need for rinsing.

## Direction for Use

Degreaser QD must be used neat, or the evaporation rate and cleaning capabilities will be changed.

Degreaser QD can be applied by most standard methods, brush, cloth, or non-atomising spray.

Small parts may be immersed in a bath of Degreaser QD for a short time and then dried off.

For large equipment; the most suitable way to clean is to apply Degreaser QD by means of an air drier spray or siphon gun. Spray equipment with the cleaner until all traces of soil has been removed, then dry off with the compressed air.

Most electrical components or parts can be cleaned using Degreaser QD, however it is possible that some components such as rubber and plastics could be affected, therefore it is advised to remove such parts before cleaning or test a small area to check for any adverse reaction before full scale cleaning.

## Features

- Rapid dispersion of oils and greases.
- Non-flammable.
- Completely evaporates at a controlled speed.
- Non-corrosive.
- Leaves no surfaces film.

## Customer Care

Hazard warning symbol is: Harmful

## Hazards

- |            |  |
|------------|--|
| R 20/22    | Harmful by inhalation and if swallowed           |
| R 36/37/38 | Irritating to eyes, respiratory system and skin. |

## Precautions

- |            |  |
|------------|--|
| S 51       | Use only in a well ventilated areas.                               |
| S 36/37/39 | Wear suitable protective clothing, gloves and eye face protection. |

## Transport

- |               |           |
|---------------|-----------|
| IMO class 6.1 | page 6243 |
| UN No.        | 2831      |
| ADR           | 6.1 15°C  |

## Storage

Keep in tightly sealed, clearly labelled, in a cool dry place a cool. Keep away from oxidisers, heat and flames.

## Packaging

25ltr containers



## Product Description

Descaling Liquid is a fast acting liquid acid formulation containing wetting agents and corrosion inhibitors.

## Features

- Removes scale fast and effectively.
- Non-volatile.
- Inhibitor against corrosion of ferrous metals.
- Long shelf life.
- Quick rinsing.

## Applications

- For removal of water scale from boilers.
- Cleaning of scale and rust from marine engine cooling systems.
- Removal of scale & rust from condensers, evaporators, calorifiers, heat exchangers and water pipework.

## Directions For Use and Dose Rates

The most effective descaling for large systems; i.e. boiler, and marine engines is achieved by circulation and heating. Smaller components can be soaked in an immersion tank.

The system should be checked for oil contamination and degreased if any oil exists using G.P. Enviroclean, Seaclean, or Envirobreak.

## Preparation

Depending on the amount of scale build up, the solution strength can be modified. Descaling liquid should be mixed with fresh water to make a solution of between 10% and 30% depending on the extent of scale.

This solution should then be circulated through the system until scale has been removed.

After the descaling operation it is essential to flush through the system to remove any remaining acid from metal surfaces. To neutralise

the acid use 0.5% of alkalinity control or caustic soda in water and circulate through the system for 2 - 4 hours or until an acceptable pH value is obtained, this should be about pH 7.

This neutralisation will also passivate the steel surfaces.

**N.B.** Descaling liquid should **not** be used on aluminium, zinc, tin or any galvanised surfaces for which a special grade inhibited product should be used.

For additional information on de-scaling of shipboard equipment please consult with Edge Servicing Department.

## Customer Care.

N.B. Descaling Liquid is a strong acid and should be treated with care.

## Hazard Advice; SPEED OF ACTION IS VITAL.

- R-35 Causes severe burns.
- R-37 Irritating to respiratory system.
- S-2 Keep out of reach of children.
- S-23 Do not breath fumes.
- S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S-27 Remove all contaminated clothing.
- S-36/37/39 Wear suitable protective clothing, gloves and eye / face protection.

## Transport Hazard Labels;

IMO Class 8, page 8174  
UN No. 1789  
ADR 8,5B

Hazard warning symbol is corrosive.

## Packaging;

1 and 25ltr containers.

## Storage

Store in dry cool environment.



## Product Description

De-scaling Powder is a dry acid powder formulated to remove rust and scale deposits from many types of ships' machinery.

## Features

- De-scaling of boilers from water scale and rust particles.
- De-scaling of marine engine cooling water systems.
- Removal of water scale and rust particles from condensers, evaporators, calorifiers, heat exchangers and water pipe systems.

## Preparation

Mix between 2.5% and 10% of De-scaling Powder with fresh water. The ratio of mix depending on the amount of scale to be removed.

When first mixed the solution is a bright red colour, as the acid is used for scale removal the colour the colour changes to is orange as it is neutralized. At 85% it will then change to yellow, when the acid is fully neutralized. At this stage the mixture can be recharged if de-scaling is not complete by adding some more acid powder or flushing out and adding a new mix. Some scales such as calcium sulphates and heavy iron oxides need a stronger acid solution. The strength of the acid can be enhanced by adding one part sodium chloride (common salt) to twenty parts of rust and scale remover if salt is not available an acceptable alternative is to make up the mixture using sea water.

On completion of the de-scaling and flushing out of the system circulate with a 0.5% solution of ALKALINITY CONTROL or caustic soda for two to four hours to neutralize any remaining acidity and passivate the steel surfaces. pH value should be around pH 7.

**N.B.** De-scaling Powder is **not** for use with aluminum, zinc, tin or galvanized surfaces as it may damage these types of metals.

## Direction for Use

The most effective way of de-scaling large systems is by heat and circulation and for small components by soaking in an immersion bath. The system to be de-scaled should be checked for oil contamination and degreased if any oil exists using GP Enviro-clean, Seaclean or Enviro-break.

## Customer Care

This is an acid product and should always be treated with care.

## Transport

IMO class 8, page 8144  
UN number 1752  
ADR 8.65°C

## Hazard Advice

R-22 Harmful if swallowed.  
R-36/38 Irritating to eyes and skin.  
S-2 Keep out of the reach of children.  
S-7 Keep container tightly closed.  
S-26 In case of eye contact rinse immediately with plenty of water and seek medical advice.  
S-28 In case of contact with skin, wash immediately with plenty of water.

## Storage

Keep container tightly closed. Store in a dry well ventilated room, away from oxidizers, alkalis, heat and naked lights.

## Packaging

25 Kilogram Kegs.





PRODUCT CODE  
CH-DP-125

# Degreasing Powder

Concentrated Alkali Powder

PRODUCT  
DATA  
SHEET

## Product Description

A heavy duty alkaline but caustic free product containing special additives which quickly remove oil and grease deposits.

## Features

- Good Wetting action
- Free rinsing
- Low foaming
- Caustic free

## Applications

Can be used in many industries from heavy engineering for oil and grease removal to the food industry for removal of food soils and general purpose cleaning. It is a heavy duty non caustic powder for cleaning/degreasing ferrous metals (some non-ferrous metals may be cleaned where strict controls on dilution and immersion times can be maintained). The product contains low foaming wetting agents. De-greasing Powder is suitable for use in industrial spray booth washing machines, steam pressure cleaning machines, immersion soak tanks and for general cleaning of floors and walls.

## Direction for Use

**Steam and Pressure Machine Cleaning:** Use 10 to 20 grams (1-2%) per litre of water in the detergent tank.

**Soak Tank Cleaning:** Use 25 to 65 grams per litre of water (2.5-6.5%) at between 75 to 85°C.

**Spray Booth Washing Machines:** Use 20 to 50 grams per litre of water (2-5%) at ambient temperatures or heated to 75 to 85°C.

**General purpose** floor and wall cleaning and for removing fats, oil and grease in food industries: Use 20 to 100 grams per litre of water (2-10%) at 40-80°C depending on amount of soil.

## Customer Care

Handle strong alkalis with care. Wear full protective clothing and wash off any splashes with plenty of water. For detailed H&S information request a hazard data sheet.

## Packaging

15kilo tubes



## Product Description

This all natural multi-purpose cleaner/degreaser has a scientifically advanced formulation enabling it to be totally non-toxic and fully bio-degradable to give maximum safety to the user and the environment.

A special marine feature is its ability to allow it to pass through an oily water separator without interfering with the separating processes.

## Features

- Environmentally friendly.
- Non flammable.
- Water miscible.
- Promotes pleasant odour.
- Can be disposed of without risk of water pollution.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing oil for reclamation.
- Economical dilution rate: use with 1 to 15 parts of water.
- Removes oils, carbon deposits, greases, sludge's, polymer compounds, traffic film, general dirt and grime.

## Directions for Use

Engine Room Cleaner can be used as a general purpose cleaner and heavy duty degreaser.

For light cleaning dilute up to 15 parts water with one part Engine Room Cleaner, for heavy cleaning and degreasing, use neat to 1 - 5 parts water.

Engine Room Cleaner can be applied by brush, spray, immersion tanks, ultrasonic cleaning and high pressure washers.

## Technical Information

After cleaning the engine room, due to the unique property of this product the slop water may be passed directly through the oily water separator.

For best results in cleaning use hot or warm water. Between 40°C and 60°C.

## Customer Care

This product can be classified as non-hazardous in accordance with the 1984 CPL Regulations and when assessed under the 1988 COSH H regulations.

## Hazard Advice

R-36                      Could be irritating to eyes and skin.

## Precautions

S-23                      Do not breathe spray.

S-36/37/39              Wear suitable protective clothing.

S-26                      In cases of contact with eyes, rinse immediately with water.

## Transport

IMO. Class/page	Not Listed
UN No.	Not Listed
ADR	Not Listed

## Storage

Store in a cool, dry environment, at a temperature between 10°C to 40°C.



## Product Description

This all natural multi-purpose cleaner/degreaser has a scientifically advanced formulation enabling it to be totally non-toxic and fully bio-degradable to give maximum safety to the user and the environment.

A special marine feature is its ability to allow it to pass through an oily water separator without interfering with the separating processes.

## Features

- Environmentally friendly.
- Non flammable.
- Water miscible.
- Promotes pleasant odour.
- Can be disposed of without risk of water pollution.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing oil for reclamation.
- Economical dilution rate: use with 1 to 15 parts of water.
- Removes oils, carbon deposits, greases, sludges, polymer compounds, traffic film, general dirt and grime.

## Applications

- Enviro Clean is a multi-role product that has uses in many areas of cleansing and degreasing and can be used on most vinyl's, fabrics, plastics, fiberglass and other surfaces.
- It has the ability to remove greases, oils, sludge, tars, polymers compounds, carbon deposits, fiberglass resins, as well as general greases and grime.
- In the engine room it has proved to be an exceptional degreaser plus an excellent sugi product for paintwork.
- Used neat for light carbon removal.
- Can be used in soak tanks.
- Excellent sonic tank cleaner.
- Used in high pressure cleaning equipment.
- Cargo tank cleaning after mineral oils and petroleum based chemicals.
- Hydrocarbon tank freeing of cargo tanks.
- Cargo tank cleaning after animal, vegetable and fish oils.
- General accommodation cleaning.
- Cleaning of engine room double bottom deep tanks and bilges.

## Directions for Use

General Engine Room Cleaning - Enviro. G.P. can be used not only as a heavy duty degreaser but also for dirt and grime on paint work, as a general sugi. It can be applied by brush, hand spray, used in ultrasonic tanks, immersion, soak tank and high and low pressure appliances. It can be used neat or diluted by up to 15 parts of water depending on the amount of soiling to be removed.

PRODUCT CODE  
CH-EC-140

# Enviro Clean

General Purpose Cleaner Degreaser & Tank Cleaner

PRODUCT  
DATA  
SHEET

## Technical Information

After cleaning engine room, due to the unique property of this product the slop water may be passed directly through the oily water separator.

For best results in cleaning use hot or warm water. Between 40°C and 60°C.

## Tank Cleaning

Enviroclean has the ability due to its unique properties of being able to clean mineral oil and vegetable/animal oils, with equal efficiency. It is a product that gives total hydrocarbon freeing due to the product having no petrol chemical solvents.

*Direct injection method* dose rates between 0.3% and 3%, i.e. 3 litres per ton wash water to 30 litres, for best results use hot water: 20°C to 50°C.

*Recirculation method* - dose rate between 2% and 6%. Wash for 1 to 4 hours at a water temperature of 20°C to 50°C to give the best results.

*Spray Method* - Spray neat over tank walls, allow to soak for 30 minutes then rinse with hot water between 20 and 50 degrees Celsius for about 45 to 60 minutes.

*Spot Cleaning Method* - Spray neat over areas of contamination, allow to soak for 30 minutes then wash off with hot water where possible.

## Customer Care

This product can be classified as non-hazardous in accordance with the 1984 CPL Regulations and when assessed under the 1988 COSH H regulations.

## Hazard Advice

R-36 Could be irritating to eyes and skin.

## Precautions

S-23 Do not breathe spray.

S-36/37/39 Wear suitable protective clothing.

S-26 In cases of contact with eyes, rinse immediately with water.

## Transport

IMO. Class/page Not Listed

UN No. Not Listed

ADR Not Listed

## Storage

Store in a cool, dry environment, at a temperature between 10°C to 40°C.

**PRODUCT CODE**  
**CH-LS-956**

# ***Lube OS Clean***

Lube Oil Separator Cleaner

**PRODUCT  
DATA  
SHEET**

## **Product Description**

Lube OS is a water soluble, non hazardous, non-flammable, non corrosive liquid. It contains non-ionic synthetic detergents and weak organic acids. Designed to remove carbonaceous and varnish deposits from lube and fuel oil separator discs.

## **Features**

- CONCENTRATED BLEND OF SURFACTANTS AND SOLVENT
- COMPLETELY SOLUBLE IN WATER
- CONTAINS EMULSIFIERS
- CONTAINS NO CHLORINATED HYDROCARBONS
- DOES NOT ATTACK STAINLESS STEEL
- DEGREASES SURFACES AND MACHINE PARTS
- RAPID WATER RINSING
- EASY TO USE FOR FAST RESULTS

## **Applications**

For degreasing and cleaning of stainless steel discs & parts, brass, aluminium and other metals. Intended for cleaning of lube-oil separator bowls and removal of sludge deposits containing organic and inorganic substances. The cleaning liquid also removes deposits caused by hard water. It will not create any sedimentation problems in the sludge tank.

## **Directions for Use**

It is recommended that the discs be immersed in a diluted solution of Lube OS. Depending upon the quantity of the deposits, a solution containing one part of Lube OS to four to eight parts water. Any suitable metal container (except galvanised) or dip tank can be used to clean the parts. The solution can be used at ambient temperature, but faster cleaning will take place at an elevated temperature of 50-70 degrees C.

Remove the stainless steel discs from the support column and place only these stainless steel parts in the Lube OS solution.

After cleaning has been completed, thoroughly rinse parts with fresh or tap water.





## Product Description

This new multi purpose, cleaner degreaser, made from a new advanced formulation, giving high degreasing and cleaning power, but being totally biodegradable, non-toxic, phosphate free, giving no pollution and toxicity to marine life. This all water based product is acceptable for use in marine engine rooms and to be passed through an oily water separator after splitting.

## Features

- Totally biodegradable.
- No phosphates, giving protection to marine life.
- Non-flammable.
- Water miscible.
- Non-pollutant to the environment.
- Compatible with most types of oily water separators.
- Separates after cleaning, releasing the oil.
- Extremely concentrated product, giving a maximum dilution rate of 1 to 200 part of water.
- Can be considered a light carbon remover.
- Extremely good all purpose cleaner, for all types of compounds.

## Applications

- GP Cleaner can be used in the engine room, for heavy contamination, grease and oils.
- Suitable on most types of bricks, including vinyl's, plastic, fibre glass and other surfaces.
- Can be used as a light carbon remover, by spraying on neat or circulation and heating in a soap tank.
- Has excellent properties for cleaning and degreasing paint work as a diluted product.
- Can be used in sonic tank cleaning equipment.
- High pressure cleaning equipment.

- Concentrated enough to be used as a cargo tank cleaner.
- Can be used for cleaning double bottom tanks.
- Hydro-free, hydro carbon tank freeing of cargo tanks after hydro carbons.

## Directions for Use

General engine room cleaning, GP Cleaner can be used diluted for general degreasing. It should only be used concentrated on very heavy contamination or for carbon removal. To make application and dose rates easier we have given a list below of dose rates for various types of application.

## Customer Care

GP Cleaner in a concentrated form is a strong alkaline product. The hazard warning symbol is irritant.

## Hazard Advice;

R-36/38            Irritating to eyes and skin.

## Precautions;

S-2/26/36/37/39            keep out of reach of children. In case of contact with eyes, rinse with plenty of water. Wear suitable protective clothing, gloves and eye/face protection.



## Product Description

A non caustic alkaline cleaner this product is supplied highly concentrated and is especially designed for use in high pressure washing machines for cleaning oil, grease and general dirt from painted surfaces.

## Applications;

- All types of HP washing machines
- Hard surface cleaning

## Features

- Fast acting for greater efficiency and economy.
- High concentrate promotes economy of handling and stowage.
- High concentrate permits wide range of applications.
- Does not damage painted surfaces.

## Application Instructions;

For use in a pressure machine apply a dose rate of 1% to 5% at low pressure to surface and after allowing 4 to 5 minutes penetration time, wash off with fresh water at high pressure. Operators may use hot or cold water.

Edge HP Wash can also be used as a conventional cleaner using mops, brooms or cloths for application.

Heavily soiled surfaces require a dilution of up to 20% but this can be reduced to 1% for lesser grime

## Technical Information

Edge HP Wash is a non-caustic, non-flammable alkaline detergent designed for use with High Pressure machines. It is an ideal cleaner for

painted surfaces (both internal and external), car decks, holds and engine spaces.

## Customer Care

The cleaner may react with metal alloys (aluminum, zinc etc.) and rubbers (both natural and synthetic.) Care should be taken to avoid contact with such materials.

Hazard warning symbol is irritant.

## Hazard Advice

R-36/38 Irritating to eyes and skin.

## Precautions;

S-36/37/39 wear suitable protective clothing, gloves and eye/face protection.

## Transport;

IMO Class/page Not listed

UN No. Not listed

ADR Not listed

## Storage;

Keep in dry, cool, ventilated area. Keep container closed. Avoid acids, moisture and combustible materials.

## Packaging;

1, 5 & 25ltr containers.



## Product Description

*Quickbreak* is a general all-purpose degreaser with an emulsion breaking solvent, used for engine room and cargo tank cleaning. It allows the slop water to break into two separate oil and water phases.

## Applications;

General cleaning of machinery spaces, bulkheads, deck, bottom plates and any oil/grease soiled areas.

- Bilge and tank top cleaning to gas free standard.
- All cleaning where slops are required to pass through oily water separators.
- Cargo tank cleaning of mineral oils and petroleum based chemicals.
- Degreasing the cleaning engine cooling water systems.
- Degreasing the oil side of fuel and lube oil heat exchangers.
- Cleaning/degreasing of boilers.

## Features

- Works in conjunction with oily water separators to meet current IMO recommendations.
- Highly effective, economical solvent.
- Rapid penetration.
- Slop emulsions break down into two distinct phases.
- Water phase completely free of chemicals and containing less than 15ppm of oil.
- Allows oil residues to be reclaimed.
- Reduces disposal costs and associated problems.
- Low toxicity, Non corrosive.

## Direction for use;

Quickbreak is recommended for local cleaning and degreasing of engine rooms. It may be applied by brush, spray, immersion, soaking, or any other conventional means. Depending on state and nature of soiling, Quickbreak may be used neat or up to 30% solution with fresh water. Allow a residence time of at least 30 to 60 minutes where possible, to ensure good penetration of soiling.

Wash down all surfaces using hot water if possible and high pressure water jet.

Bilge and tank top cleaning. If soiling is more tenacious, use Quickbreak neat. Apply by spray and leave for 30 to 60 minutes before washing down with high pressure water jet.

The emulsion residue after cleaning must be allowed to separate in a holding tank for at least 3 hours before passing through an oily water separator.

To achieve the best results from the splitting action of Quickbreak it is important that no other type of detergent cleaner is used in the engine room.

## ***Cargo Tank Cleaning after mineral oils***

1 Direct injection method into tank washing machines is recommended for this product. A dose rate of between 0.1% and 3.0% i.e. one litre to thirty litres per tonne wash water. Best results are obtained when water is heated to a temperature of between 650 and 800C and not less than 500C.

Slops should be constantly stripped from the tank and transferred to a holding tank. Allow slops to settle and 'break'. The time for this will vary depending on amount of Quickbreak used and type of oil being cleaned. In most cases, 12 hours should be sufficient before the water phase can be decanted.

2 Spot Cleaning. Quickbreak can be sprayed neat over tank surfaces to be cleaned, left for at least 30 minutes and up to 2 hours if time will allow.

Using tank washing machines or high pressure hoses, wash down tank walls. Best results are achieved with hot water between 600 and 800C.

Keep stripping tank slops and transfer to holding tank/slop tank and allow time for slops to 'break' before decanting the water phase.

For full cleaning instructions for various types of cargoes, please consult Edge Tank Cleaning Guide.

## 4) Fuel & Water Treatment

Clean Burn	Marine Organic Fuel Combustion Improver
Fuel Biocide	Antimicrobial Agent to remove microbiological contamination in fuel
Bio Control	Microbiological control agents for use in water, oil and fuel oil systems
Alkalinity Control	Boiler water treatment
Combi-Treat	Complete Boiler Conditioner
Phos-Treat	Phosphate Treatment for Boiler Water Systems
Liqui-Treat	Complete Boiler Conditioner
Evap-Treat	Evaporator Treatment for Evaporators





## Product Description

An environmental catalyst fuel treatment for marine fuel oils. This revolutionary new organic catalyst fuel treatment is formulated from organic hydrocarbon with no metal additives. Its unique formulation gives three major benefits to the user, it improves fuel economy, cleans the combustion system and reduces the pollution to the environment.

## Features

- Highly effective combustion catalyst.
- Improves combustion to the extent of giving a saving of 7% plus on fuel costs.
- Cleans carbon deposits from engine and increases heat transfer.
- Reduces engine wear and corrosion of exhaust systems.
- Extends exhaust systems life.
- Extends life and maintenance time on fuel injector nozzles and boiler burners.
- Reduces harmful emissions by burning fuel more efficiently.
- Environmental quality of emissions is considerably improved.
- Keeps fuel bunker tanks from sludging out.
- Simple to use.
- Assists in engine start-up.

## Applications

- Oil fired marine boilers.
- Petrol / Diesel Engines.

## Direction of Use

Clean Burn is dosed into the Bunker tanks or General Services tank at a ratio of 1:3500ltrs.

## Technical Information

Clean Burn is a mixture of saturated and aromatic unsaturated hydrocarbon compounds. Chemical analysis shows that Clean Burn contains only substances, which are normally found in fuel oils.

No other elements or foreign substances are introduced into the fuel. Therefore, the fuel specification of treated fuel remains the same as untreated fuel within the limits of fuel standards. Therefore, if Clean Burn is used to the instructions given it will not cause any harm to boilers or engines or effect the warranty of any machinery.

## Environmental Implications

A reduction of pollution in exhaust gas tests show a considerable reduction in the amount of pollution in fuels treated with Clean Burn.

There are two aspects that reduce the amount of emissions. Firstly, the reduction in the amount of fuel burnt is directly proportional to a similar reduction in emissions. Secondly there is a considerable reduction of pollutants present in the exhaust gases. There is a decrease of carbon dioxide both in percentage and in volume. Tests have shown a considerable reduction in Carbon Monoxide.

## Oxides of Nitrogen (NOx)

A series of tests using the chemiluminescence method showed a reduction of NOx of up to 70%. This was due to a combination of effects due to adding Clean Burn, i.e., nitrogen only combines with oxygen in the event of high temperatures and most NOx emissions are generally thought to be caused by contact with hot spots in combustion chambers. The cleaning effect of Clean Burn removes these deposits which normally glow red hot and causes the formation of oxides of nitrogen. This is further confirmed by the reduction in the exhaust gas temperatures. As well as the above, since it has been shown that with boilers it is possible to reduce the amount of air needed for the burn the amount of NOx is also reduced, thus giving a threefold reduction in NOx.

## Sulphur

The tests on sulphur emissions also showed a marked decrease in the reductions of SOx ranging from 24 - 40%

The remarkable changes in the burn of an engine or boiler in reducing emissions has led to more tests being done and now involves the UK Government in substantiating some of these findings which will be published when completed.

## Customer Care

This product can be classified as non-hazardous in accordance with the 1984 CPL Regulations and when assessed under 1988 COSHH regulations. Clean Burn should be treated in the same manner as diesel oil.

## Physical Properties;

Colour: Pale brown liquid

Density: At 15 c is 86

Flashpoint: 200 c above + 200c

Viscosity: At 40 c:21 centiStokes

Boiling point: 290 c

Sulphur: Nil

## Hazard Advice;

Could be irritating to eyes and skin and respiratory system.

## Precautions;

- |            |  |
|------------|--|
| S-23       | Do not breath spray.   |
| S-36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| S-26       | In cases of eye contact rinse immediately with water.              |

## Transport;

- |                 |            |
|-----------------|------------|
| IMO. Class/page | Not listed |
| UN No.          | Not listed |
| ADR.            | Not listed |

## Storage;

Store in a dry cool environment.

## Packaging;

1ltr, 5ltr, 25ltr containers

## Product Code

CH-CB-710

## **Product Description**

Once applied, Bio Clean's billions of harmless micro-organisms digest the soiling which other bacteria can feed on. It is the action of these other bacteria that produce the mal-odours often associated with dirty drains, toilets and soiled furnishings. Conventional chemical cleaning cannot remove organic soiling from within the pile of furnishings and carpets, or concrete tile grouting. These products can only clean the surface. The micro-organisms in Bio Clean are attracted by this food source and will colonize it, eating it until there is nothing left. Bio Clean may then be vacuumed. The power of Bio Clean is achieved by utilising all natural micro-organisms. There are no harmful or dangerous bacteria or chemicals in Bio Clean. These harmless microbes act as a powerful cleaning tool to digest all organic matter. Because of the natural ingredients in Bio Clean it is unlikely to cause harm to users, equipment or the environment and is therefore especially suitable for use in schools, hospitals and institutions where care in the selection of safe cleaning agents is important.

## **Directions for use**

Apply by mop, brush, cloth, sponge or mechanical cleaners.

*Initial treatment and spot cleaning of severe contaminations:*

Dilute 1:1 with warm water and work well into soiled areas. Leave wet to dry slowly. Repeat if required.

Vacuum carpets when dry.

*General cleaning of flooring and walls in toilets, kitchens and food preparation areas:*

Dilute 20:1 with warm water and work in. Leave wet to dry slowly.

*Light cleaning and odour control of large carpeted areas:*

Dilute 20:1 with warm water and apply with machine. Do not extract but allow to dry slowly. Vacuum when dry.

*Toilets, urinals and drain maintenance:*

Pour undiluted into toilet or urinal. Agitate with mop or brush and allow to act. Flush to rinse. Pour a little into drain outlets once or twice each week to prevent odours caused by waste build up.

## **Features**

- Fully biodegradable
- Contains no toxic chemicals/hazardous components
- Cleans through microbial activity
- Masks & then eliminates odours through microbial activity
- Enhances biological activity in sewage treatment plants
- Replaces conventional cleaners potentially harmful to a biological sewage system

## **Application**

*Garbage & waste collection areas* - Masking & eliminating odours.

*In toilets and showers* - Cleaning hard surfaces and pipes in sanitary systems, colonizing pipes, breaking down organic solids and subsequently eliminating odours.

*In sinks and drains* - To breakdown grease, fats, starch and other organic compounds, freeing pipework and eliminating associated odours.

*General Hard surface cleaning* - Biologically removes stains and odours often untouched by conventional cleaning agents. Use to clean fat and grease from grouting of tiled floors in kitchens.

*Carpets & upholstery* - This gentle biological cleaner can be used on all washable surfaces, carpets and upholstery, contaminated with urine, vomit, dairy products, fat, greases, fruit juices, beverages, pet or baby foods.

## **Packaging;**

1ltr, 5ltr, 25ltr containers

## **Product Code**

CH-BC-505



PRODUCT CODE  
CH-AC-450

# Alkalinity Control

Liquid Alkalinity Control for Boiler Water Treatment

PRODUCT  
DATA  
SHEET

## Product Description

Concentrated liquid alkaline product for corrosion and deposit control in boilers.

## Directions for use

This treatment is usually used in conjunction with Phostreat

Alkalinity Control provides the alkaline conditions for Phostreat to function correctly.

Without the correct precipitation and subsequent blowdown of hard water salts, scale deposits would form. This would result in restriction in water flow, ineffective heat transfer and local corrosion. The end effect would be an inefficient boiler and ultimately component failure. Treatment stops this occurring. Corrosion due to acid conditions must be avoided.

## Dosage

A level or treatment is maintained by testing for P. Alkalinity. The level is determined by the pressure and type of boiler. The normal method of raising the alkalinity level is by adding the required quantity of Alkalinity Control after testing for P.Alkalinity. 0.10 Litre will raise P.Alkalinity by 100ppm per 1000litre capacity.

## Dosage Method

For optimum results dose Alkalinity Control direct to the boiler via the bypass pot-feeder installed in the boiler water feed line. In low pressure boiler (Group 1) Alkalinity Control may be dosed to the hot well (condensate return tank).

## Physical Properties

Appearance:	Clear liquid
Specific Gravity:	1.3 @20'C
Odour:	None
Flash Point:	None

## Features

- Convenient liquid treatment which provides the basic alkalinity on which successful water treatment depends
- Maintains alkalinity within optimum limits.
- Provides optimum conditions for hardness control to function.
- Assists in precipitation and blowdown of magnesium salts.
- Neutralises acid conditions.
- Allows efficiency to be maintained, and reduces maintenance.
- Can be mixed with most treatment chemicals.
- Will assist in keeping silica in suspension.
- Simple test to determine level of treatment.

## Application

- Used for providing the required alkaline conditions within the boiler.
- To neutralise any acid condition on board.
- Assist in coagulating oil contamination.
- For all boiler pressures.

## Packaging;

1ltr, 5ltr, 25ltr containers

## Product Code

CH-AC-450



## Product Description

Combi-Treat is a dry powder compound containing alkaline mineral salts, sequestering agents, scale and corrosion inhibitors and scale conditioners.

The main attributes of Combi-Treat fall into the following categories:

Alkalinity Control: The correct level of alkalinity ensure that the optimum environment exists for:-

- Correct precipitation of hardness salts in conjunction with phosphate.
- Neutralisation of acid conditions.
- Avoidance of caustic corrosion.
- Control of magnesium and calcium salts.

The alkalinity 'balance' is extremely important for efficient water treatment, Combi-Treat provides this whilst avoiding excessive pH levels which could cause embrittlement and corrosion of boiler components.

Hardness control: Combi-Treat provides a phosphate reserve to effectively react with and precipitate the hardness salts introduced with the feed water. The formation of insulating scale on hot metal surfaces is prevented as the salts produced will not adhere and so optimum heat transfer efficiency is maintained. The stable phosphate compounds used in Combi-Treat will maintain their efficiency throughout the boilers normal operating temperature range. A temporary 'phosphate hide-out' where low phosphate levels at certain temperatures are experienced, is thus avoided.

Sludge Conditioning: Boiler sludge can most easily be removed by blowdown if it is free flowing, Combi-Treat will ensure this by preventing the scales from coalescing to form large crystals or adhering to metal surfaces. The resulting sludge is

composed of small particles which are dispersed so that it will flow towards the bottom of the boiler to be removed by blowdown.

## Product Properties

Appearance: Light brown Powder

Condition: Free Flowing

pH: 11 @ 20'C

## Features

- Complete 'one-shot' conditioning treatment for simplified dosing and handling.
- Boiler kept at peak level efficiency.
- Heating surfaces maintained at optimum thermal conditions.
- Promotes protective films to prevent boiler steel corrosion.
- Promotes protective films to prevent boiler steel corrosion.
- Dispersant action suspends sludge and sediment particles.
- Reduced maintenance due to complete conditioning of water and internal boiler surfaces.

## Applications

Suitable for use with all auxiliary boilers; waste heat units; economisers; package boilers; smoke and water tube boilers; steam/steam generators, up to 20 bar pressure

## Packaging;

1ltr, 5ltr, 25ltr containers

## Product Code

CH-CT-455





## Product Description

Phos-Treat is a highly soluble, dry powder used for the reduction of hardness in boiler water systems. It will precipitate calcium hardness as a non-adherent sludge.

## Directions for use

This treatment is usually used in conjunction with Alkalinity Control, and can be used in conjunction with other treatments.

Phos-Treat is formulated to maintain an optimum phosphate level within the boiler. With the correct phosphate level, the hardness salts based on calcium will not form, as the calcium will react with the phosphate to form a precipitant which will not attach itself to metal surfaces, but will be in a form suitable for blow down.

## Dosage

Phos-Treat is used in controlled amounts so that a free phosphate level is maintained in the boiler. This level is determined by the boiler pressure. Initial dosage is dependent on the quality of feed water used. To raise the phosphate level during normal working, dose 23 gramme per tonne of distilled water to raise the phosphate level by 20ppm.

## Dosing Method

For optimum results dose Phos-Treat direct to the boiler via the bypass pot-feeder installed in the boiler water feed line.

In low pressure boilers (Group 1) Phos-Treat may be dosed to the hot well (condensate return tank).

The dry powder should be dissolved in hot water (50oC) at a ratio 1 part powder to twenty parts

condensate (e.g. 500 grms/10 litres). Ensure treatment is fully dissolved.

## Product Properties

Appearance: White to pale yellow Crystalline Powder

Condition: Free Flowing

## Features

- 100% active phosphate based compound low product usage
- Easily dissolved in water for dosing.
- Scale problems due to calcium are eliminated.
- Maintains correct phosphate balance.
- Sludge is in a non-adherent state for ease of blow down.
- Simple test to determine level of treatment.

## Applications

- Used for precipitation calcium hardness to prevent calcium scales forming in all types of boiler water systems.
- Can be used for boilers of all pressures.

## Packaging;

1ltr, 5ltr, 25ltr containers

## Product Code

CH-PT-460



## **Product Description**

Liqui-Treat is a liquid blend of alkaline mineral salts, sequestering agents, scale and corrosion inhibitors, oxygen scavenger and sludge conditioner.

## **Directions for Use**

The main attributes of Liqui-Treat are:-

- Correct precipitation of hardness salts in conjunction with phosphate
- Neutralisation of acid conditions
- Avoidance of caustic corrosion
- Control of magnesium and calcium salts

The alkalinity "balance" is extremely important for efficient water treatment. Liqui-Treat provides this whilst avoiding excessive pH levels which could cause embrittlement and corrosion of boiler components.

**Hardness Control:** Liqui-Treat provides a phosphate reserve to effectively react with and precipitate the hardness salts introduced with the feed water. The formation of insulating scale on hot metal surfaces is prevented as the salts produced will not adhere and so optimum heat transfer efficiency is maintained. The stable phosphate compounds used in Liqui-Treat will maintain their efficiency throughout the boilers normal operating temperature range. Where low temperatures can cause low phosphate levels, this is avoided.

**Sludge Conditioning:** Boiler sludge can most easily be removed by blow down if it is free flowing. Liqui-Treat will ensure this by preventing the scale from coalescing to form large crystals or adhering to metal surfaces. The resulting sludge is free flowing & will easily be removed by blow down when required.

**Oxygen Control:** Oxygen scavenging becomes more vital with an increase in boiler pressure. The oxygen scavenger will effectively react with dissolved oxygen even at lower temperatures.

## **Dosing Methods**

Liqui-Treat is best fed into the boiler feed line by means of a metering pump. Gravity fed systems should be dosed by means of a flowmeter and dosing drum. DO NOT SLUG DOSE. Initial Dose: Untreated System 5 litres / 1000 litres distilled feed water resulting in 100ppm P. Alkalinity.

Additional dosing of Liqui-Treat is required to bring the P.Alkalinity level to a mid point of 200ppm. Blow down is dependant on Alkalinity & Chloride levels. If alkalinity drops below 100ppm, increase the dosage by 20%, if alkalinity exceeds 200ppm, reduce dose by 20%. In general the ranges are:- 100-300ppm P Alkalinity 200ppm Chloride maximum.

## **Features**

- Complete "one shot" liquid conditioning treatment
- Boiler kept at peak level efficiency
- Heating surfaces kept clean and so optimum conditions exist
- Promotes protective films to prevent boiler steel corrosion.
- Dispersant action suspends; Sludge and sediment, Particles for efficient blowdown
- Reduced Maintenance
- Oxygen scavenging for increased protection.

## **Applications**

Suitable for use with up to 30 bar pressure.

Auxiliary Boilers	Waste Heat Boilers
Economisers	Package Boilers
Smoke & Water Tube Boilers	
Steam Generators	

## **Packaging;**

1ltr, 5ltr, 25ltr containers

## **Product Code**

CH-LT-465



## Product Description

A Polymer- based additive to be used in Evaporators to prevent Scale Formation

## Directions for use

Evap-Treat is a liquid based on a low molecular weight polyacrylate which inhibits the formation of carbonate and sulphate scale deposits. In addition Evap-Treat will inhibit the deposition of precipitates by keeping them dispersed and conditioned to be removed by blowdown.

Evap-Treat remains stable at high temperatures and does not hydrolyse & become ineffective.

## Dosage

The standard dosage applicable to the majority of systems is, 0.030 (30ml) litres of Evap-Treat per Tonne of distillate produced. This is based on the rated production capacity of the evaporator.

The treatment is added to the dosage tank & dosed at a rate satisfactory to the flowmeter.

The brine density should not exceed a density of 1.038. The scaling potential increases rapidly over this level. An increase in the amount of Evap-Treat used will assist in retaining potential scale forming salts in suspension.

## Dosing Method

Via the dosage tank. The dosing point may vary with type and make of evaporators. As a general rule, the Evap-Treat should be dosed into the sea feed line before entering the heater.

## Physical Properties

Appearance: Pale to amber liquid  
Odour: Mild  
Density: 1.08  
pH: 11.6  
Thermal Stability of Polymer: 250'C

## Features

- Liquid product, easy to feed Prevents the formation of adherent deposits.
- alters the structure of precipitated solids . Resultant reduction in cleaning frequency & maintenance cost.
- Improves distillate purity
- Easy to monitor, brine density measurements only required.

## Application

- Use to prevent deposits in evaporators

## Packaging;

1ltr, 5ltr, 25ltr containers

## Product Code

CH-ET-470



## 5) Specialised

Aqua Grease	Special Water Absorbing Grease
Safe Guard	Ballast Tank Coating
Envirosperse OSD	Concentrated Oil Dispersant
Rust Convertor	Heavy Duty Treatment for rust
Sediment Remover	Sediment, mud & silt remover
Soot Remover	High temperature sticks and low temperature powder
Antifoulant	Marine Safe Antifoulant for sea water cooling systems





## Product Description

Developed primarily as a multi-purpose and automotive grease for use by the Armed Forces, Aqua Grease is eminently suitable for use in very low temperature environments down to -54°C, whilst maintaining a good performance at temperatures as high as 95°C.

## Application

- A special feature is its ability to absorb water contamination from the lubrication zone, ensuring that the lubricating action is not affected.
- Suitable as a general lubricant offering excellent protection for equipment which might come into contact with water.
- Performance is enhanced by the incorporation of extreme pressure, anti-corrosion, anti-oxidant, metal deactivator and special emulsifying additives.

## Advantages / Benefits

- Used as a general lubricant on most upper deck machinery i.e. hatch cover, windless, winches, cranes, lifeboat winches and wheels
- In the engine room - for bearings, where there is constant or occasional contact with water, or a damp environment. Gives double protection as steam-tube grease.
- This product is used with exceptional success on boat trailer wheel bearings, amphibious craft, tanks, lorries, outboard motors and other machinery that comes in contact with water.

Approved by NATO G.403:  
British Government Specification XG 279 DEF  
STAN 91-27/1  
USA Mil Spec Mil-G-10924C.

## Technical Info

Colour/Texture	Amber/Smooth
Drop point IP132	ASTM-D566OC 121 min
Penetration IP50	ASTM-D2117, worked 265-295 as OLEIC wt% 0.2 max
Acidity IP37	as OLEIC wt% 0.2 max
Alkalinity IP37 as wt%	0.2 max
Water content ID74	ASTM-D95 wt% Trace
Copper corrosion	IP11224 hours OC Passes
Oil separation ASTM	D1742 wt% 6.0 max
Oxidation stability	IP142 ASTM-D942
Max pressure drop	
100 hours bars	0.35
Fillers	none
Sphere of use	-54°C to -95°C

## Customer Care

Do not ingest  
Aqua Grease carries no hazard label

## Hazards;

Could be irritating to eyes and skin

## Precautions;

Wear protective gloves when using

## Transport ;

IMO Class/page	Not Listed
UN No.	Not Listed
ADR	Not Listed

## Packaging;

1ltr, 5ltr and 25ltr containers.

## Storage;

Keep in dry, cool environment. Keep container closed.

## Product Code

CH-AG-605



## Product Description

A special formulation containing vegetable based rust preventative ingredients. Designed for use in all types of marine applications, being user friendly and bio-degradable. The coating cures through oxidation to a tacky film that resists wash out which could result in possible pollution problems.

## Features

- Contains no petroleum solvents.
- Non Toxic.
- Totally bio-degradable.
- Resistant to acids.
- Not affected by heat, up to 120°C.
- Neutralises salts left on tank walls.
- 6 years plus corrosion protection in most cases.
- Able to do hot work after application because solvent free.
- Can be applied to marginally prepared surfaces by spray or flotation methods.

## Applications

- Ballast Tanks
- Void Spaces & Cofferdams
- Double Bottoms
- Chain Lockers
- Underside of hatch covers
- Drill Rig Legs

## Directions for Use

### 1) Surface Preparation

It is important to prepare tanks as best as possible before application as this may determine the length of coating life. Remove all loose scale by the most

economical methods, i.e. hand scraping, wire brushing, high pressure water hose or water blasting.

Wash out tanks after, and dry tank as much as possible.

### 2) Application of Safeguard 1

Over new steel should be 4 mls. On rusted surfaces, enough product must be applied to penetrate the scale. Up to three passes may be necessary to ensure penetration of the scale to the surface of the metal.

### 3) To Apply

It is preferable to apply Safeguard using an airless spray equipment. Best results will be achieved using a minimum 22:1 airless pump capable of 3.5 litres, per stroke. Using a ½" or 1" hose intake to the pump to a spray tip of between 0.23" and 0.30". In cold weather use heaterbands or hot rooms to reduce viscosity. If applying by brush or roller, avoid over brushing and thinning the coat. When applying by spray use standard painting practices and spray Safeguard to a thickness of 250 microns, i.e. at wet film a thickness of 10 mls.

Safeguard 1 is designed to be bright yellow in colour so that application can be seen and inspection is made easier. As Safeguard is solvent free it will be 24 hours after application before it becomes a tacky surface - it will eventually cure in about three days. Allow this time for curing before re-ballasting any tanks.

## Quantity Required

To determine the amount of Safeguard required, calculate the area to be coated i.e. bulkheads, tank tops and tank bottoms. Add to this figure an allowance of up to 200 - 500% for internal structures, which will give a minimum coverage of 4.0 square metres per litre at 250 microns.

## Float Coating Method

To coat a tank by using the float coat system, enough Safeguard 1 must be used in the tank to cover all the steel surfaces, a floating layer of product on the surface water of about  $\frac{1}{2}$ " (5mm.)

A general rule of thumb for the amount of product required for the floating layer is 80 litres per 10 square metres of water surface area. Add to this floating layer the amount of product required to spray the surface area of tank not forgetting internal structures to give the total amount of product.

- a) Prepare the tank and steel surfaces by high pressure water washing much out removing all debris.
- b) Pour the required amount of Safeguard 1 into tank.
- c) At a rate of no more than 2" (5cm ) per minute, start filling the tank with water.
- d) Press the tank up to coat the overhead structures and tank top.
- e) Discharge the tank slowly, stopping at lighting holes to allow the product layer to reform. DO NOT totally strip the tank.
- f) Repeat the above procedure taking care not to totally discharge tank as product will still be on tank water surfaces.

## Technical Information

To determine whether or not coating has been applied, look for a dull appearance to the rust and scale and a shiny oily look on sound steel surfaces. If there is a question as to sufficient quantities of coating applied to scaly surfaces, rub fingers over the surfaces looking for an oily touch.

## Technical Data

Appearance: Thin yellow liquid.  
Density: G/MI at 15°C 1.08.

Film Properties: Dries through oxidation to a tacky film.

Viscosity: 25,000 centipores. (Brookfield Viscometer using RV#4 spindle at 5 rpm.)

Flash Point: 485°F (252°C) COC.

Coverage: (Theoretical) 3.8 sq.m/litre at 250 microns.

Drying Time: Surfaces tacky in 25 hours.

Curing Time: 3-7 days depending on temperature.

## Customer Care

Wear suitable protective clothing. Provide adequate general and local exhaust ventilation when spraying and wear protective mouth piece.

## Storage;

Store in a cool dry environment.

## Packaging;

200 litre drums

## Product Code

CH-SG-725

## Product Description

Envirosperse OSD is a concentrated *water based* Type II / III approved product. This highly efficient dispersant can be used for a wide range of oils, converting the oil slick into small droplets which are rapidly distributed within the sea due to natural water movement. Special compounds in Envirosperser OSD inhibit coalescence i.e. it prevents re-formation of oil droplets. This dispersion into the sea enhances the biodegradation of the oil.

## Application:

- For all types of crude and mineral oils i.e. Fuel Oils, Diesel Oils, Kerosene, White Spirit, and Lubricants.
- Undiluted for aerial spraying of oil slicks.
- Flexible application from surface vessels depending on type and thickness of oil.
- Use neat or diluted.
- Can be used on beaches/rocky shore lines and harbours etc.
- Cleaning up after shipboard spills that may occur when loading bunkers or cargo.

## Advantages / Benefits

- Water based, no Flashpoint, very low toxicity and totally biodegradable.
- Fast acting dispersal of oils.
- Minimal agitation required compared with conventional products.
- Can be used neat or diluted.
- Wide application range. Aerial spraying and/or surface application.
- Acceptable for use on sea, beaches and rocky shorelines.
- Approved by Ministry of Fisheries and tested by Warren Springs Laboratory for efficiency as a Type II / III product (according to LR 448 specifications)

- Six to Seven times more effective than conventional dispersants. Giving high cost saving to the user.
- Reduces volume stock levels.
- Water miscible.

## Direction of Use

Envirosperse OSD can be used neat or diluted with sea water and can be applied by spray from the air or from surface vessels.

Used neat Envirosperser OSD will disperse in practice a ratio of between 1:15 and 1:20 times its own volume.

Used diluted Envirosperser OSD will work at a ratio in practice of about 1:2 - 1:3 times its own volume. It can be diluted with sea water at a ratio of 1 part dispersant to 10 parts sea water and should be mixed prior to use.

## Customer Care

Envirosperse OSD has no hazard warning labels, however prolonged exposure should be avoided as the product may irritate the eyes and skin. Avoid inhalation and do not ingest.

## Hazard Advice

R-36 Irritating to eyes and skin.

## Precautions

S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## Storage

Store in a cool, dry environment.  
Do not store below -10°C.

## Packaging

25, 200 and 1,000ltr containers

## Technical Information

The effectiveness of the oil dispersant will vary depending on the state of the oil i.e. its pour point and viscosity at sea temperature and the amount of weathering it has been exposed to i.e. evaporation of the lighter fractions of oil and the formation of water-in-oil emulsions will all quickly increase viscosity and pour point and hence increase resistance to dispersion.

It is therefore essential for the users of oil dispersants to use it as early as possible in the clean up operation if it is to be effective.

We recommend that users of oil dispersants read the following IMO publication "*IMO/UNEP Guidelines on Oil Spill Dispersant Application and Environmental Considerations*" as this book gives full information on the application of dispersants.

We would also like to point out that the use of dispersants in many cases is governed by local authorities or coast guard and permission to use such products must first be sought.

## Product Description

Our Rust Converter is a complex mixture of vinyl acrylic copolymer and tannic acid used for the treatment of corroded steel and iron surfaces. Rust Converter neutralises the corrosion process by converting the rust into a blue/black metallo-organic complex, which passivates the surface. It then adds further protection, by forming a film with a low permeability to water vapour and oxygen. Rust Converter is self-priming, but for long-term protection it is recommended to overcoat with a suitable water or solvent based topcoat. One litre of Rust Converter can treat 8-9 square metres.

## Application:

Surfaces should be wire brushed to remove loose rust and debris, it is also recommended to wash with water to remove soluble salts, as these inhibit the conversion process. Surfaces should also be oil and grease free. Rust Converter has been designed for application by spray and brush. By airless spray a dry film thickness of up to 60 microns can be achieved without sagging. The addition of further water may be necessary for air assisted spraying. For application by brush, a dry film thickness of 40 microns per coat is considered optimum. Rust Converter can be applied over damp surfaces and dries quickly under suitable temperature and humidity conditions.

(After use equipment should immediately be washed in water, to remove all traces of Rust Converter)

## Drying Conditions

Temperature, humidity, air movement and film thickness all affect the time required to reach the 'touch dry' stage. Under ideal conditions a 100 micron wet film of Rust Converter will be touch dry in approximately 10 minutes at 20°C, whereas at 10°C and with little air movement it could take up to 2 hours. Rust converter should not be applied at temperatures below 10°C, or when there is risk of rain or condensation during the drying period.

Rust Converter can be used in the following areas: Manufacturing, Agriculture, Automotive, Local Authority, Road haulage, Chemical, Marine, Heavy Engineering, Building & Construction, DIY, etc.

## Over coating

Rust Converter may be coated when cured with any conventional paint using brush, roller or spray. Rust Converter has been tested and certified as fit for use in potable water systems, and for the carriage of grain. It may be used in sensitive foodstuff areas as well.





## Product Description

Colourless to pale yellow liquid compound for the removal of sediment

### Features

- A highly effective liquid compound for the removal of sediments, silt and mud from ballast tanks, cooling water systems, pipelines.
- Sediment Remover will keep mud in suspension and will clean fouled systems completely provided the appropriate dosage levels and application times are adhered to.
- Sediment Remover is a Polymer based product. It does not contain acid, alkali or solvent. Sediment Remover is completely biodegradable and has no hazard indications.

## Directions for Use

Continued use of Sediment Remover prevents the deposition of sediments, mud or silt in ballast tanks, cooling water systems, pipelines etc.. Further, it can be used with mechanical action to dislodge existing mud or silt in ballast tanks. Sediment Remover should be injected in small quantities into ballast or cooling water systems prior to filling the tanks or system. Mud present will not adhere to either itself or to bulkheads, tank structures or inside pipelines. If heavy deposits are present, an increased dosage will remove a portion of the sediment after each application. Thick mud deposits will require several applications.

## Dosage

ONE litre of Sediment Remover per each 10tonnes of Ballast Water.  
ONE litre of Sediment Remover per each 10tonnes of Cooling Water.

For the removal of existing accumulations increase the dosage by 2-3 times depending on the ballast time available and the quantity of mud to be removed. Mechanical agitation may be required.

## Application

Inject Sediment Remover preferably into the suction line of the ballast or cooling water pump to ensure thorough mixing with the incoming water. If possible, circulate the water through the tanks and the suspended mud and silt will be pumped out when de-ballasting.

## Physical Properties

Clear to pale yellow liquid

Specific Gravity: 1.06 @ 20°C

pH: 8.5



## Product Description

Active blend of mineral based salts, containing slag modifiers and carbon oxidation catalyst. Each stick contains approximately 0.5 kgs of Soot Remover.

## Application

To remove unburned carbon slag deposits from:-  
Boiler furnaces, superheaters, economisers, air heaters and exhaust path/stacks.

## Features

- Reduces soot and slag deposits by transforming them into dry, powdery ashes which are easily removed.
- Reduces cold end corrosion by neutralizing sulphuric acid deposits on surfaces where the temperature is lower than the dew point of the exhaust gas.
- Improves heat transfer and aids soot blowing due to reduction in deposits.
- Increases boiler efficiency.
- Reduces cleaning costs by decreasing maintenance and frequency of cleaning.
- No need to shut down boiler or plant when dosing.
- Available in easy-to-use stick form.

## Directions for Use

Determine the quantity of Soot Sticks required by quantity of fuel consumed per boiler per day

Introduce the appropriate amount of Soot Sticks into the hottest part of the boiler furnace by adopting any of the following methods:

1. Open a boiler peephole or furnace door and throw in the required number of sticks.

2. Remove the burner and shoot the required number of sticks through the body of the burner housing into the furnace and replace the burner.

3. If the boiler is equipped with dosing injector simply pour the contents of the stick into the injectors and direct the nozzle towards the hottest area of the flame.

## Dosage

For Oil-fired boilers, the daily dosage depends on the fuel oil consumption per boiler, per day (see table).

For coal-fired boilers, the approximate daily dosage is 3kg of Soot Remover per 30 tonnes of coal consumed per boiler every 24 hours.

**NOTE:** for best results apply Soot Remover daily, immediately after soot blowing.

Oil Consumption Tonnes/day	Dosage KG (Powder)	Sticks
20	1	2
40	2	4
60	4	8
80	6	12
100	9	18
120	12	24
140	14	28
160	16	32
180	18	36

## Packaging

IN POWDER: normal size 25kg drums of powder

IN STICKS: box of 50 STICKS of 0.5kg per stick



## Product Description

A very effective liquid antifouling corrosion inhibitor. This is effective against marine growths, such as algae, shellfish and microorganisms.

## Application

All types of systems using sea water, both static and flowing. Lubrication and fuel oil systems. Fresh and distilled water systems.

## Features

- Liquid treatment which is easy to use.
- Extremely effective in dealing with marine growths.
- Protects systems for corrosion.
- Many applications covered by one product.
- Maintains heat transfer in systems and extends periods between cleaning.
- Reduces maintenance and down time.
- Economical in use.

## Directions for Use

The broad spectrum biocide has been carefully formulated to deal with the lower forms of life responsible for the fouling of seawater systems, while remaining relatively harmless to the higher life forms, such as man.

Antifoulant will kill the bacteria associated with the slime in fresh and salt water ballast tanks, bilges and pipework. It will deal with mussels and other mollusc and their spats. The other area of action for Antifoulant is in corrosion inhibition. A protective molecular film is formed on the surfaces treated. This provides a barrier against corrosion. The long chain amine molecules in Antifoulant will neutralise the acid conditions which allow corrosion to start.

Antifoulant can be used in both static and flowing systems. Some examples are as follows:-

- Sea water systems, including sea water intakes, filter boxes and piping.
- Static ballast tanks (fresh and salt water).
- Stability trimming tanks.
- Bilges
- Oil rig sea legs
- Engine closed-recirculation cooling water systems.
- Lubricating and fuel oil systems contaminated with water

## Dosage

A dose indication can be given as 2 litres for every 100 tonnes of sea water flowing through the system in one hour. This can be determined by the system parameters.

For static ballast tanks dose at 7 litres per 100 tonnes of water for ballast.

For closed circuit cooling systems dose at 1 litre.



## 6) *Maintenance Products*

S-Z-C Wire Lube	Wire Lube
Nut Loose	High Speed Penetrating Oil
Quickcrete	Fast setting bonding and patching compound.
Super Glue	Industrial Strength Super Glue
Hand Wipes	
Oil Only Wipes	Oil Only Absorbent Wipes
GP Wipes	General Purpose Wipes
Chemical Wipes	Chemical Absorbent Wipes





## Product Description

HD S-Z-C Wire Lube supersedes the conventional blacking. The penetration is so good that it infuses the rust, covers the individual wires of each strand with a protecting coat, penetrates and infuses the core. Thus there is a continual conservation of the goods. The conservation stays flexible in the temperature range of -60 degrees centigrade up to +300 degrees centigrade. Due to the fact that the product does not crack and separate itself from the surface, the coated goods stay supple. HD Wire Rope and cable Lube is resistant to friction and can cope with friction heat up to 300 degrees centigrade.

The product is delivered ready for use, it displaces moisture, can be applied on a solid rust surface and dries out to a black tacky film which cannot be washed off. Its components include Molydisulphide and extreme pressure additives to improve the gliding character of the surface.

## Field of Application

Esgard HD S-Z-C Wire Lube is an approved self oiling conservation product for cables, wire rope as drums, block sheaves, chains, open gear and all other kinds of unprotected systems, (all running and fixed goods) and obviates any need for a covering.

## Technical Data

Type:	Petroleum based, black rust inhibitive compound
Density:	1.2 g/cm <sup>3</sup>
Viscosity:	NLGI grade 4 grease
Volume solids:	98.2% according to ASTM D 2369-73
Flash point:	280 °C
Toxicity Wet Film:	Corresponding to mineral oil
Toxicity Dry Film:	Non toxic
Solvents:	White Spirit (can also be used to dilute)
Airing:	Not necessary
Resists:	Against salt, fresh and industrial water, acid polluted air
Surface preparation:	Dirt, loose rust and loose paint to be removed
Application:	Paint, dip, apply with cloth or twist oakum or leather cone
Drying Period:	Approx. 1 hour

## Product Code

CH-WL-625



## Product Description

A fast acting penetrating liquid, containing special oils and solvents that breaks down iron and carbon deposits.

## Features

- High speed penetration of rusty seized up parts.
- Saves time and labour in dismantling machinery.
- Avoids burning or cutting off bolts from engines or machinery.
- Simple application.
- Emits no toxic fumes or vapours.
- Used to keep tools clean and rust free.

## Applications

- Dismantling rusty seized up nuts and bolts.
- Cleaning of soiled and corroded metal parts.
- Cleaning and protection of tools and machinery parts.

## Directions for Use

Nut Loose can be applied in most of the conventional ways, i.e. brush, spray and spout, or soaking in an immersion tank.

For nuts, bolts and other corroded parts a few drops of nut loose on the thread and nut is usually sufficient to free a seized thread.

Soiled and corroded parts: These can be soaked in a tank, to remove rust scale and soiling, i.e. grease, tar and oils.

To protect against rust, cover parts or tools in a coating of Nut Loose. Product should always be used neat.

## Customer Care

Nut Loose carries no hazardous warning label, however we do not recommend prolonged exposure to the product as it causes defatting and drying of the skin. It can also irritate the eyes.

## Hazard Advice;

R-36/38 Could be irritating to the eyes and skin.

## Precautions;

S-2 Keep out of the reach of children.

S-36/37/38 Wear suitable protective clothing.

## Transport;

IMO Class/page	Not listed
UN No.	Not listed
ADR	3, 32°C

## Product Code

CH-NL-620



## Product Description

Quick Crete is a fast setting, high compressive strength compound that shows no appreciable volume change on setting. It can be applied or used in or out of water. It shows its initial set in 4/5 minutes and reaches a compressive strength of at least 3,000 psi in air and 2000 psi under water, in 24 hours. Quick Crete bonds to clean concrete, masonry, stone and steel. Quick Crete is free of calcium chloride.

## Applications

Sewers, Pipe work, Sea walls, Outfall pipes, Surface spall repairs, Tank repairs, Manhole lining, Inspection cover filling and fittings, Pot hole filling, Water channels etc.

## Directions for Use

To 4 or 4½ parts of Quick Crete add 1 part of water by volume. Mix thoroughly for 1/2 minutes to reach the consistency of medium soft glazing putty. Mix only quantities that can be used immediately as Quick Crete hardens in 4/8 minutes. Do not add more water or a weaker mix will result. Water used may be either fresh or sea water.

Quick Crete should then be placed in a firm manner to ensure a complete bond of the area being treated.

For deposits of Quick Crete less than ½" thick, they should be cured for 16 hours with damp sand or sprayed with a curing compound.

Thin sections on pipe work etc. can be coated with damp hessian until initial cure is effected.

The finish of Quick Crete can be given a smooth, even surface by hand or machine trowelling.

Before applying Quick Crete to dry concrete masonry etc., it is suggested that they be soaked with water in order to provide a good bond to the Quick Crete itself.

## Curing

Quick Crete reaches its initial set in 4½/5 minutes, can be trafficked after 30 minutes, but takes 28 days to achieve maximum strength. It is important that the water in Quick Crete is not sucked away through contact with dry concrete or allowed to prematurely evaporate through the effect of sun or wind. A damp covering of cloth, sand, etc., is effective in the latter case.

## Drying Times

Initial set 5 minutes maximum  
Curing set 15/30 minutes  
Overcoating time 24 hours maximum  
Maximum strength 28 days

## Packaging

25 Kilo steel kegs

## Storage

For maximum life up to 2 years, store in a dry area.

## Product Code

CH-QC-951



# Absorbent Material

Oil Only Absorbents

PRODUCT  
DATA  
SHEET

## Wipes / Pads

Oil Wipes (Packs of 50/100/200) 40x50cm  
Used for cleaning up after spill, hands tools  
etc. Large Wipes (Pack of 50) 96x96cm



## Cushions / Pillows

Cushions (45 x 55 x 7.5cm) For use on water  
or leaking pipes etc.



## Oil Mop & Wringer Type 1

A mop made of special polypropylene fibres  
to pick up oil, which then can be transferred  
to a 200 or 25ltr drum by using a large  
wringer. Can be re-used after cleaning with  
detergent. Also available Type II a stand  
alone wringer with a volume of 25ltr.



## Rolls

Absorbent Rolls (49m x 96 x 0.35cm)  
Mini Roll (49m x 48 x 0.35cm)  
Deck Matting (30 x 1mtr)  
Used as underlay, for drums walkways to  
prevent unnecessary cleanup





# Absorbent Material

Oil Only Absorbents

PRODUCT  
DATA  
SHEET

## Product Description

Spaghetti Boom, a new faster acting more absorbent boom, constructed using a single net filled with spaghetti strands. Standard 3m long, diameter either 12cm or 20cm, a cost effective construction, easy to replace and retrieve. No boom skin barrier preventing oil getting to absorbent material, and absorbs oil right through to the core. Absorbs up to 25 times its weight in petroleum. Unsinkable, remains floating even when saturated with oil, Non toxic to marine life, High flame resistance. Will absorb non aqueous liquids, suitable for heavy bunker use.



- A new faster acting more absorbent boom
- Constructed using a single net filled with spaghetti strands
- Standard 3m long
- Two sizes available, 120cm dia or 200cm dia
- Cost effective construction
- No boom skin barrier preventing oil getting to absorbent material
- Absorbs oil right through to the core
- Probably the most cost effective product on the market today
- Easy to replace and retrieve
- Able to soak 25 times its weight in petroleum
- Unsinkable, remains floating even after being saturated with oil.
- Non - toxic to marine life
- Not affected by temperature change will not rot or mildew
- High Flame resistance
- Will absorb non aqueous liquids
- Suitable for heavy bunker use

## Oil Seals (125 x 7.5cm)

Versatile and highly absorbent for all types of hydrocarbons, these seals are designed to be placed around machinery, pipes etc.

Other available Absorbent Boom Sizes

3m x 12.5cm

3m x 10cm

3m x 7.5cm





# Abzorba / Abzorba GP

Both Totally Biodegradable Products

PRODUCT  
DATA  
SHEET

## Abzorba

ABZORBA is mainly used for absorbing oil, but it can also be used absorb Paints, Anti-freeze, PCBs, Alcohols, Solvents, Polymers, Toxins, and medical/biological compounds.

ABZORBA can absorb up to ten times its own weight in oil.

ABZORBA can be applied by hand, mechanical blower or drop spreader, and is also used as a refill for Edge organic cushions, organic booms and the Oil Fender.

Once the spilt product has been absorbed ABZORBA should be scooped up and disposed of as appropriate for the type of substance it has absorbed.

If used on water surfaces it can be retrieved by suction device, netting, screened shovels or skimmers. It must be disposed of according to the substance it has absorbed.

If used for a non-hazardous substance, it can be incinerated, or used for landfill.

### Note

These products do not neutralise the harmful aspects of any product. Care must be taken when dealing with spills and suitable protective clothing must always be worn.

## Abzorba GP

ABZORBA GP is a recycled general purpose absorbent. It will absorb all water-based liquids including toxic chemicals.

ABZORBA GP will absorb 105% of its own weight for water based products.

ABZORBA GP can be applied to spills by hand, mechanical blower or drop spreader.

Once the spilt product has been absorbed ABZORBA GP should be scooped up and disposed of as appropriate for the type of substance it has absorbed

If used for a non-hazardous substance, it can be incinerated, or used for landfill.





## 7) *Spill Kits*

Oil Spill Kits

Chemical Spill Kits



# Oil Spill Kits

PRODUCT  
DATA  
SHEET



# Oil Spill Kits

PRODUCT  
DATA  
SHEET

## Edge Eco Kit I

Qty	Description	Absorb
3	821ltr Storage Container 965 x 813 x 1320cm	
2	Non-Spark Oil Scoop	
1	50 HD Bags + Ties	
1	Oil Transfer Pump 136ltr/min	
1	5mtr 1.25" Oil Resistant Hose for above	
4	12ltr Non-Spark Bucket	
2	Anti Static Deep Pan Shovel	
5	Pack of 10 Oil Absorbent Cushions 55 x 45 x 7.5cm	300
2	Packs of 10 Oil Seal 125 x 7.5cm	76
20	Spaghetti Link Boom 3mtr x 12cm	950
1	Roll of Deck Matting 33 x 1mtr	98
4	20ltr Bag Organic "Abzorba" Absorbent	80
3	Pack of 200 Oil Absorbent Wipes 40 x 50 x 0.35cm	744
3	3" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
1	12ltr Pressure Sprayer	
4	Set of Protective Clothing	
		2248

## Edge Eco Kit II

Qty	Description	Absorb
2	821ltr Storage Container 965 x 813 x 1320cm	
2	Non-Spark Oil Scoop	
1	25 HD Bags + Ties	
1	Oil Transfer Pump 90ltr/min	
1	5mtr 1.25" Oil Resistant Hose for above	
4	12ltr Non-Spark Bucket	
2	Anti Static Deep Pan Shovel	
3	Pack of 10 Oil Absorbent Cushions 55 x 45 x 7.5cm	180
2	Packs of 10 Oil Seal 125 x 7.5cm	76
12	Spaghetti Link Boom 3mtr x 12cm	570
1	Roll of Deck Matting 33 x 1mtr	98
4	20ltr Bag Organic "Abzorba" Absorbent	80
2	Pack of 200 Oil Absorbent Wipes 40 x 50 x 0.35cm	496
4	3" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
1	12ltr Pressure Sprayer	
2	Set of Protective Clothing	
		1500

## Extra Absorbent Box

Qty	Description	Absorb
1	396ltr Storage Container 1016 x 607 x 1016cm	
1	Roll of Deck Matting 33 x 1mtr	98
2	Spaghetti Link Boom 3mtr x 12cm	95
5	Oil Absorbent Cushions 55 x 45 x 7.5cm	60
5	Oil Absorbent Seals 120 x 7.5cm	20
2	20ltr Bag Organic "Abzorba" Absorbent	40
1	Pack of 100 Oil Absorbent Wipes 40 x 50 x 0.35cm	125
1	25 HD Plastic Bags + Ties	
		438

## Edge Basic 1.5 Barrel Kit

Qty	Description	Absorb
1	225ltr Open Top Poly Drum	
1	Non Spark Oil Scoop	
1	Set of Disposable Protective Clothing	
1	Pack of 50 Oil Absorbent Wipes 40 x 50 x 0.35cm	62
2	Spaghetti Link Boom 3mtr x 12cm	95
1	5 HD Bags + Ties	
1	Non Spark Mini Muck Pump 45ltr/min	
1	Anti Static Deep Pan Shovel	
5	Oil Absorbent Cushions 55 x 45 x 7.5cm	60
		217

## Edge Eco Small Spill Kit III

Qty	Description	Absorb
1	396ltr Storage Container 1016 x 607 x 1016cm	
2	20ltr Bag Organic "Abzorba" Absorbent	40
2	Spaghetti Link Boom 3mtr x 12cm	95
1	Pack of 50 Oil Absorbent Wipes 40 x 50 x 0.35cm	62
1	Pack of 10 Oil Seals 125 x 7.5cm	38
1	12ltr Non-Spark Bucket	
1	Non-Spark Oil Scoop	
1	Set of Protective Clothing	
1	Non Spark Mini Muck Pump 45ltr/min	
1	5 HD Bags + Ties	
		235

## Edge Eco Small Spill Kit IIIA

Qty	Description	Absorb
1	Above Kit (Edge Eco Small Spill Kit III)	235
1	Pack of 50 Oil Absorbent Wipes 40 x 50 x 0.35cm	62
1	Pack of 10 Oil Seals 125 x 7.5cm	38
5	Oil Absorbent Cushions 55 x 45 x 7.5cm	60
2	3" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
1	Anti Static Deep Pan Shovel	
		395

# Oil Spill Kits

PRODUCT  
DATA  
SHEET

## Edge Small Vessel Spill Kit

Qty	Description	Absorb
1	396ltr Storage Container 1016 x 607 x 1016cm	
1	Wringer Type II	
1	Mop Handle & Holder	
2	Mop Head	
2	20ltr Bag Organic "Abzorba" Absorbent	40
1	Pack of 50 Oil Absorbent Wipes 40 x 50 x 0.35cm	62
2	Oil Absorbent Cushions 55 x 45 x 7.5cm	24
2	Oil Seal 125 x 7.5cm	8
2	Spaghetti Link Boom 3mtr x 12cm	95
2	3" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
1	10 HD Bags + Ties	
1	Non-Spark Oil Scoop	
1	Anti Static Deep Pan Shovel	
1	12ltr Non-Spark Bucket	
1	Set of Protective Clothing	
1	Non Spark Mini Muck Pump 45ltr/min	
		229

## Edge Tanker Kit – 12 Barrel Kit

Qty	Description	Absorb
2	821ltr Storage Container 965 x 813 x 1320cm	
1	Dispersant Dosing Eductor	
2	Roll of Deck Matting 33 x 1mtr	196
1	Jet Vac Pump + Accessories	
2	Mop Handle & Holder	
4	Oil Mop Head	
1	Wringer Type I	
2	Non-Spark Oil Scoop	
1	50 HD Bags + Ties	
1	12ltr Pressure Sprayer	
1	20 Sorbaide Hanks	
4	3" Scupper Plug	
1	4" Scupper Plug	
1	6" Scupper Plug	
1	8/12" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
2	Spaghetti Link Boom 3mtr x 12cm	95
4	20ltr Bag Organic "Abzorba" Absorbent	80
5	Refilable Organic Cushions 50 x 50 x 7.5cm	60
5	Oil Seal 125 x 7.5cm	20
1	Pack of 100 Oil Absorbent Wipes 40 x 50 x 0.35cm	124
4	Set of Protective Clothing	
2	72ltr Non Spark Muck Buckets	
2	12ltr Non-Spark Bucket	
2	Anti Static Deep Pan Shovel	
		575

## Replacement Absorbent Box A

Qty	Description	Absorb
1	Cardboard Box 1060 x 730 x 540cm	
1	Roll of Deck Matting 33 x 1mtr	98
2	Spaghetti Link Boom 3mtr x 12cm	95
5	Oil Absorbent Cushions 55 x 45 x 7.5cm	60
5	Oil Absorbent Seals 120 x 7.5cm	20
2	20ltr Bag Organic "Abzorba" Absorbent	40
1	Pack of 200 Oil Absorbent Wipes 40 x 50 x 0.35cm	125
1	25 HD Plastic Bags + Ties	
		438

## Replacement Absorbent Box B

Qty	Description	Absorb
1	Cardboard Box 1060 x 730 x 540cm	
4	Spaghetti Link Boom 3mtr x 12cm	95
10	Oil Absorbent Cushions 55 x 45 x 7.5cm	60
5	Oil Absorbent Seals 120 x 7.5cm	20
2	20ltr Bag Organic "Abzorba" Absorbent	40
1	Pack of 200 Oil Absorbent Wipes 40 x 50 x 0.35cm	125
1	25 HD Plastic Bags + Ties	
		340

## Edge Bunker Spill Kit – 7 Barrel Kit

Qty	Description	Absorb
1	821ltr Storage Container 965 x 813 x 1320cm	
1	Dispersant Dosing Eductor	
1	Roll of Deck Matting 33 x 1mtr	98
2	Mop Handle & Holder	
4	Oil Mop Head	
1	Wringer Type II	
2	Non-Spark Oil Scoop	
1	50 HD Bags + Ties	
1	12ltr Pressure Sprayer	
4	3" Scupper Plug	
1	Non Spark Pump for Scupper Plug	
2	Spaghetti Link Boom 3mtr x 12cm	95
4	20ltr Bag Organic "Abzorba" Absorbent	80
5	Refilable Organic Cushions 50 x 50 x 7.5cm	60
5	Oil Seal 125 x 7.5cm	20
1	Pack of 100 Oil Absorbent Wipes 40 x 50 x 0.35cm	124
4	Set of Protective Clothing	
2	12ltr Non-Spark Bucket	
2	Anti Static Deep Pan Shovel	
1	Vac Sump Pump 50ltr/min	
		477





# Chemical Spill Kit

PRODUCT  
DATA  
SHEET

## Standard Kit



## Features

- Designed to meet the needs for general industry
- Contains absorbents to deal specifically with chemical spillages
- Clay Mats to stop entry of chemicals into the drainage system
- Warning sign to prevent accidents
- Warning tape to stop unauthorised access
- Disposal bags to deal with the contaminated waste
- All equipment contained in a Yellow, labelled box
- Wheels available for boxes if required

Chemical Absorbent Sheets 50 x 40cm	150
Chemical Absorbent Pillows 23 x 38cm	12
Chemical Absorbent Rolls 48cm x 49mtr	2
Mini-Booms 7.5cm x 3mtr	4
Quick Seal Mats 20 x 22cm	4
HD Bag & Ties	10
Hazardous Spill Sign	1
Hazard Tape	1

Other kits available on request

# Chemical Spill Kit

PRODUCT  
DATA  
SHEET

## Chemical Spill Kit I

Qty	Description	Absorb
1	64ltr Watertight Drum	
1	Pack of 25 Chemical Wipes 40 x 50 x 0.35cm	31
1	Chemical Absorbent Cushion 45 x 55 x 7.5cm	6
2	GP Absorbent Seals 120 x 7.5cm	8
1	5KG Bag Organic "Abzorba GP" Absorbent	20
5	HD Plastic Bags + Ties	
		65

## Chemical Spill Kit II

Qty	Description	Absorb
1	198ltr Storage Container 787 x 482 x 787cm	
1	Pack of 100 Chemical Wipes 40 x 50 x 0.35cm	124
6	Chemical Absorbent Cushion 45 x 55 x 7.5cm	36
1	Chemical Absorbent Roll 49mtr x 48 x 0.35cm	124
2	Mini Chemical Boom 3mtr x 7.5cm	16
4	Quick Seal Mat 20 x 22.5cm	
10	HD Plastic Bags + Ties	
1	Spill Warning Sign	
1	Barrier Tape	
1	Non-Spark Scoop	
1	Hand Brush	
1	5KG Bag Organic "Abzorba GP" Absorbent	20
		320

## Chemical Spill Kit III

Qty	Description	Absorb
1	396ltr Storage Container 1016 x 607 x 1016cm	
1	Pack of 150 Chemical Wipes 40 x 50 x 0.35cm	186
12	Chemical Absorbent Cushion 45 x 55 x 7.5cm	72
2	Chemical Absorbent Roll 49mtr x 48 x 0.35cm	248
4	Mini Chemical Boom 3mtr x 7.5cm	32
4	Quick Seal Mat 20 x 22.5cm	
10	HD Plastic Bags + Ties	
1	Spill Warning Sign	
1	Barrier Tape	
		538

# Prices

PRODUCT  
DATA  
SHEET