



Smarter Chemistry for the

Marine Industry



Specialist Fuel & Water Treatment

Air Cooler Cleaner
Antifoulant Plus

General Maintenance

Penetrating & Dewatering Fluid
Lowtox DL
Lowtox Xtra Fast
Emulsifying Degreaser

Winter Products

Antifreeze Concentrate
Monoethylene Glycol
FIS De-Icing Liquid
Ice Away

Biochemical Drain Maintenance

Fiszyme Biochemical Drain Maintenance Range
Fiszyme Digestor
Fiszyme 700
Fiszyme BTC
Fiszyme TDS



Deck, Bulkhead & Bilge

Aqueous Degreaser 2000
Aqueous Degreaser 2000HD
Offshore Degreaser EF
Cleenol OD Heavy Duty-EU

Catering & Accommodation

Ultrachlor 14% ULB
Hard Surface Cleaner
Krystal Clear
Hand Cleaner EX250 Premium

Rust Removal/ Corrosion Protection

Rust Remover Inhibited 2
Neutral Deruster
Blue Steel Primer
Lanotec HD

Fuel Management

Mergal K9N (Fuel Biocide)

Fentex Spill Control

www.fentex.co.uk



Aqueous Degreaser 2000

Description

Aqueous Degreaser 2000 is an ideal product for general deck and bulkhead cleaning. It is a low-toxic water based degreaser, safe to use and bio-degradable MARPOL Compliant. Suitable for removal of carbon deposits, dirt, sludge and grease. The addition of natural orange, not only gives extra cleaning power but gives the operator a pleasant working environment. Will also degrease deluge systems.

Dilutions

Heavy Duty Degreaser: Use Neat

General Purpose: Decks / Bulkheads 5:1

Hard Surface Cleaning: 10:1

Casing Cleaner: 20:1

High Pressure System: 25:1

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Yellow Liquid

pH (concentrated solution): 7-8

Shelf Life

Storage: 24 months

Available in the following containers





Aqueous Degreaser 2000HD

Description

Aqueous Degreaser 2000 HD is a concentrated product for deck and bulkhead cleaning. It is a low-toxic water based degreaser, safe to use and bio-degradable MARPOL Compliant. Suitable for removal of carbon deposits, dirt, sludge and grease.

The addition of natural orange, not only gives extra cleaning power but gives the operator a pleasant working environment. Will also degrease deluge systems.

Dilutions

Heavy duty degreaser use - Neat

Engine room dilute up to - 5 to 1

Tanktops dilute - 5 to x

Decks dilute - 20 to 1

Laundry use dilute - 40 to 1

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations. The components of this product meet MARPOL annex V for discharge in to the sea.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information

Properties

Appearance: Amber liquid

pH (concentrated solution): 7-8

Density @ 20°C: 1.0

Shelf Life

Storage: 24 months

Available in the following containers





Aqueous Degreaser 5000 EU

Description

An ideal product for general cleaning of deck plates, bulkheads and equipment washing in the engine room.

Quick splitting for use with Oily Water Separators.

Dilutions

In use, the degree of dilution depends on the type of contamination. The following dilutions are suggested as guidance only:

Heavy Duty Cleaning 2:1

General Cleaning 5:1

Light Degreasing 10:1

Environmental

Dispose of chemicals in accordance with local environmental legislation.

AQUEOUS DEGREASER 5000 EU Is listed with CEFAS with a Gold rating.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Clear colourless liquid

pH (diluted solution): ~9 ~1

Density@ 20°C: 1.006

Shelf Life

Storage: 24 months

Available in the following containers





BILGE WATER FLOCCULANT

Description

Bilge Water Flocculant is a very effective liquid treatment based on Poly-aluminium Chloride (PAC) to separate oil residues from bilge water. It is Iron-free, and is completely safe to the environment.

Application

International environmental regulations set strict rules as to the oil content in effluent water from ships. To meet these regulations, a combination of mechanical and chemical cleaning is necessary.

Bilge Water Flocculant is used in combination with multistage bilge water cleaning systems that include mechanical separation of free oil, emulsion breaking, flocculation and filtration. After dosing, it breaks the oil in water emulsion created by contaminants in lubricating and fuel oils, emulsifying cleaning agents etc. It then destabilises the remaining small oil droplets and agglomerates them into larger particles (flocs) that are easily collected by filtering.

Dilutions

Typical dose rate: 100-500ppm (0.10 – 0.5litre/metre cubed of water)

In a multistage bilge water cleaning system, Bilge Water Flocculant is fed undiluted through a dosage pump connected to the pressure side of the descaler. The floc tank is fed according to the flow of the bilge water pumped into it. The feed is adjusted in connection with the installation and normally needs no alteration. If required, dosing can also be controlled by measuring the level in the container. Corrosive to cast iron as concentrate.

Non Corrosive to all metals at use concentration.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Liquid, Yellowish

Density @ 20°C: 1.30-1.37

pH (concentrated): 0.4-2

Shelf Life

Storage: 24 months

Available in the following containers





CHLORINATION OF FRESH WATER

Conversion

1m ³	=	1000 litres
1 ton	=	1000 litres
1000mls	=	1 litre
1000g	=	1kg

Products Used are:

1. Calcium Hypochlorite containing 65% available chlorine available in 7g, 20g and 300g tablets (with or without sleeves) and granules.
2. Sodium Hypochlorite liquid, 14% available Chlorine. Ideally a Chlorine Test Kit should be used to check the level of chlorine, due to the initial dose of Hypochlorite being added is consumed immediately, killing the bacteria present. In general the system has to be overdosed to achieve correct levels.

Questions to Ask:

1. How much water is to be treated?
2. Is liquid or solid form required?
3. Normally drinking water is approximately 1.0 ppm max.

Super chlorination is normally 50 ppm.

Following is a list of doses per 1000 litres of water to be dosed.

Chlorine (ppm)	14% Hypo	Tablets/Granules
1	5.8 mls	1.5 grams
5	29 mls	7.5 grams
25	145 mls	38 grams
50	290 mls	75 grams

For every 1000 litres/ton/m³ multiply by that factor to get quantity required.

e.g. 400 ton water at 25 ppm available chlorine.

For Hypo 14%	=	400 x 145mls	=	58000mls	=	58 litres
For Tablets/Granules	=	400 x 38 g	=	15200g	=	15.2kgs

Changing
Perceptions
on Chemicals.

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Citrosolve 08 EU

Description

Citrosolve-CIEMDE08 EU is a water dispersible non-caustic, non-alkaline, non-toxic hydrocarbon based solvent degreaser. It is safe on most painted surfaces. It finds considerable acceptance for removing heavy grease and oil from machinery, metal, bilges, tank-tops and for cleaning equipment and small parts prior to storage, painting, plating or finishing.

Applications

The product may be sprayed, brushed or poured onto the surface to be cleaned and hosed off with water (preferably under pressure). For most applications, use Citrosolve-CIEMDE08EU as supplied. It may be used in a dip tank.

OCNS HQ BAND: GOLD

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Colourless liquid
Density @ 20°C: 0.81
Flash point: >74°C Closed cup

Shelf Life

Storage: 24 months

Available in the following containers





Citrosolve 08

Description

Citrosolve-CIEMDE08 is a water emulsifiable hydrocarbon solvent, non-caustic, non-alkaline, non-toxic and is safe on most painted surfaces. It finds considerable acceptance for removing heavy grease and oil from machinery, metal, bilges and for cleaning equipment and small parts prior to storage, painting, plating or finishing.

Applications

The product may be sprayed, brushed or poured on the surface to be cleaned and hosed off with water (preferably under pressure). For most applications, use Citrosolve-CIEMDE08 as supplied. It may be used in a dip tank.

OCNS HQ BAND: GOLD

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Colourless liquid
Density @ 20°C: 0.81
Flash point: >74°C Closed cup

Shelf Life

Storage: 24 months

Available in the following containers





CLEENOL DEGREASER - EU

Description

A general purpose cleaner/ degreaser. Removes grime, traffic film and grease from hard surfaces, machinery, equipment, bulkheads, vehicles and decks.
It separates quickly when used with oily water separators.

Application

For general degreasing and cleaning a dilution on 2% in water.
Use a spray, brush or sponge for application of product

Environmental

Dispose of chemicals in accordance with local environmental legislation.
OCNS HQ BAND: GOLD
CEFAS Template Registration No: 25554

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Properties

Appearance: Colourless liquid
Density @ 20°C: ~1.06
pH (concentrated): ~14

Shelf Life

Storage: 24 months

Available in the following containers



Cleenol OD Heavy Duty - EU

Description

A powerful yet environmentally and user friendly heavy duty degreaser. Efficiently removes oil, grease and grime contamination from hard surfaces, machinery, equipment, bulkheads, vehicles and decks leaving a clean residue free surface.

It separates quickly when used with oily water separators.

Dilutions

Dilutions offered are only a guide as per CEFAS template and depend on many factors including: temperature, type of contamination, degree of soiling.

Recommended dilution rates are between 5-1 and 75-1.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Cleenol Offshore Degreaser Heavy Duty EU Is CEFAS listed with a Gold rating.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Light yellow liquid

Density @ 20°C: ~1.030

pH (concentrated solution): ~12.9

Shelf Life

Storage: 24 months

Available in the following containers



Crystalbrite Premium Bio Laundry Detergent

Description

A highly concentrated, phosphate-free biological liquid detergent designed for most types of soiling. The product has excellent stain removal properties even at temperatures as low as 30 °C, thus eliminating or greatly reducing the need for pre-washing or pre-soaking. Low level of fragrance making it suitable for use with overalls for food production areas.

Directions For Use

The product can be used through approved Cleenol auto-dosing equipment or may be fed manually through a hopper or rollerball.

Use rates vary according to the type and amount of soil present and whether it is being used as a "one shot" liquid or in conjunction with an additional stain removal agent such as Cleenol Laundry Oxy Stain Remover Liquid.

Quantities required are in the region of 10-15ml / kg dry weight of laundry. This may be reduced to as low as 2-3 ml when used in conjunction with an agreed Cleenol multi-product laundry dosing programme. Please contact your Cleenol Laundry Specialist for further details.

Product Codes

CRZZ2X5, CRZZ10, CRZZ20



Storage

Store in cool conditions away from direct sources of heat.

Avoid extremes of temperature.

Do not allow to freeze.

Ensure the cap is tightly fitted after use.

Keep out of reach of children.

Shelf Life

Shelf life 24 months, if stored as recommended. Use within 6 months of opening.

Environmental

Do not allow large quantities of neat liquid to enter surface waterways as ecological damage may be caused. In the event of a large spillage, contact the local water authority or Environment Agency immediately. This product uses recyclable packaging. The detergents used in the formulation are biodegradable to EU guidelines under the detergents regulations (EC) No 648/2004.

Notes

Cleenol Group Ltd

Registered address: Beaumont Road, Banbury, Oxon, OX16 1RB, UK.

Tel: +44 (0) 1295 251721 | Email: sales@cleenol.co.uk | Web: www.cleenol.com

Cleenol Group Ltd is a limited company registered in England & Wales under N° 00635803



Crystalbrite Non-Bio Laundry Detergent

Description

A non-biological and phosphate-free liquid detergent with effective stain removal properties. Designed for light to medium soiling. Leaves clothes clean and fresh.

The product has excellent stain removal properties even at temperatures as low as 30 °C. Eliminates the need for pre-soaking or rewashing when used in conjunction with Crystalbrite Laundry Oxy Stain Remover or Crystalbrite Alkaline Laundry Wash Booster.

Low fragrance hence may be used for overalls in food production areas.

Directions For Use

Can be used through Cleenol automatic dosing equipment or may be fed manually.

Use rates vary according to the type and amount of soil present and whether it is being used as a "one shot" liquid or in conjunction with an additional alkaline boost.

Quantities required are in the region of 100-250ml / 12kg / 25lbs.

Where bleachable stains such as tea, coffee or wine are excessive, Cleenol recommends the use of Crystalbrite Laundry Oxy Stain Remover to aid stain removal.

Product Codes

CRLD1/10



Storage

Store in cool conditions away from direct sources of heat. Avoid extremes of temperature. Do not allow to freeze. Ensure the cap is tightly fitted after use. Keep out of reach of children.

Shelf Life

Shelf life 24 months if stored as recommended. Use within 6 months of opening.

Environmental

Do not allow large quantities of neat liquid to enter surface waterways as ecological damage may be caused. In the event of a large spillage, contact the local water authority or Environment Agency immediately.

This product uses recyclable packaging. The detergents used in the formulation are biodegradable to EU guidelines under the detergents regulations (EC) No 648/2004. It contains no Phosphates.

Notes

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Crystalbrite Economy Jasmine Fabric Conditioner

Description

A concentrated fabric conditioner that contains a built-in antistatic agent to make ironing easier whilst prolonging fabric life. Designed to leave clothes soft and fresh. A delicate jasmine perfume gives a pleasant and lasting scent to the wash.

Directions For Use

Use at the final rinse cycle of the wash at a rate of 10 ml per kg of dry weight wash load.

Do not use on kylies.

Product Codes

CRLD3/5, CRLD3/10, CRLD3/20



Storage

Store in cool conditions away from direct sources of heat. Avoid extremes of temperature. Do not allow to freeze. Ensure the cap is tightly fitted after use. Keep out of reach of children

Shelf Life

Shelf life 24 months, if stored as recommended. Use within 6 months of opening.

Environmental

Do not allow large quantities of neat liquid to enter surface waterways. This product uses recyclable packaging. The detergents used in the formulation are biodegradable to EU guidelines under the detergents regulations (EC) No 648/2004.

Notes

It contains no Phosphates.

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Decarboniser

Description

Decarboniser is a specially formulated blend of aggressive solvents for removal of oil, grease, carbon, resins and paint.

Applications

Decarboniser is best applied in dip tanks for the removal of baked-on carbon on engine blocks, gearboxes etc. Brown/black in colour it also has a shelf life of 18 months and should be stored in a cool area away from heat sources. The product is safe on most non-ferrous, ferrous metals and aluminium.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

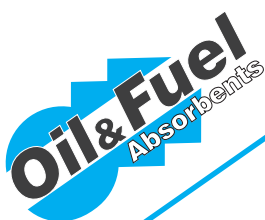
Appearance: Brownish liquid
pH (diluted solution): 1 @ 1%
Flash point: 18°C Closed cup.

Shelf Life

Storage: 24 months

Available in the following containers



**BRIEF DESCRIPTION:**

20cm x 3m, Oil & fuel sorbent boom Poly Wrapped (Net, Rope, Clips & Rings)

DESCRIPTION:

Oil and fuel absorbent booms for use in marine situations such as ponds, lakes, marinas, harbours and rivers. Their hydrophobic properties allow the booms to float on water and only absorb hydrocarbons such as diesel and other pollutants.

ABSORBS:

- Hydraulic oil
- Engine oil
- Lubricating oil
- Solvents

Will not absorb water

ABSORBENCY / CAPACITY:

280 litres

DIMENSIONS:

20cm x 3m

APPLICATION:

Oil & Fuel

QUANTITY:

4

**Oil & Fuel**
Absorbents**BRIEF DESCRIPTION:**

12cm x 3m, Oil & fuel sorbent boom Poly Wrapped (Net, Rope, Clips & Rings)

DESCRIPTION:

Oil and fuel absorbent booms for use in marine situations such as ponds, lakes, marinas, harbours and rivers. Their hydrophobic properties allow the booms to float on water and only absorb hydrocarbons such as diesel and other pollutants.

ABSORBS:

- Hydraulic oil
- Engine oil
- Lubricating oil
- Solvents

Will not absorb water

ABSORBENCY / CAPACITY:

170 litres

DIMENSIONS:

12cm x 3m

APPLICATION:

Oil & Fuel

QUANTITY:

4

**BRIEF DESCRIPTION:**

20cm x 50cm, Oil and fuel absorbent boom Poly Wrapped (Net, Rope & Rings)

DESCRIPTION:

Mini Drain booms Supplied with metal fastening ring to allow mini-boom to be deployed by rope (not supplied) into drains or other areas with difficult access.

Water repellent and can be left in situ to absorb oil in situations where water is present.

ABSORBS:

- Hydraulic oil
- Engine oil
- Lubricating oil
- Solvents

Will not absorb water

ABSORBENCY / CAPACITY:

100 litres

DIMENSIONS:

20cm x 50cm

APPLICATION:

Oil & Fuel

QUANTITY:

10



FIS ALKACLEAN

Description

FIS Alkaclean is a heavy duty water-based alkaline cleaner that can be used for cargo tank cleaning, following discharge of drying, semi-drying and non-drying natural oils and fats. Can be applied by inject of circulation method.

Application

As soon as possible after the cargo has been discharged, the tanks should be flushed with cold water to prevent heat induced polymerisation and the evaporation of the lighter oil fractions.

Whenever possible, the cleaning solution should be heated to between 60°C and 80°C, however, the polymerising nature of some natural oils may demand lower cleaning temperatures.

The most economical method of using PA18 is by direct injection followed by recirculation washing, using tank cleaning machines.

If the method is not possible, other conventional methods such as separate direct injection, recirculation, or hand spraying provide acceptable options.

With the combined recirculation and direct injection methods, washing is started using cleaning solutions of recirculation dosage. The solution should be injected into the tank via the cleaning equipment with the tank cleaning machine near the tank floor and lower areas of tank walls.

Heating of the cleaning solution can now be achieved by using heating coils in the tank or bypassing the solution through a heating system outside the tank.(e.g. Butterworth Heater).

Use at 5% solution with water to remove all types of natural oils and fats.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Liquid, colourless

Density @ 20°C: > 1.3

pH (concentrated): >13

Shelf Life

Storage: 24 months

Available in the following containers





FIS-EWT

VERSION 1.0 | March 2024 | FIS DATASHEET

Description

FIS-EWT is a nitrite-based engine water treatment. It is designed to inhibit corrosion in closed-loop cooling systems. A blend of components to reduce the likelihood of corrosion in mild steel or other metal systems. FIS-EWT is compatible with glycol-based antifreeze.

Application

FIS-EWT should be mixed with water and adequate mixing is required to ensure complete homogenisation. FIS-EWT should not be used in systems containing aluminium components.

Dilutions

Flush system to remove sludge and other solid matter. Add FIS-EWT directly to the cooling system. Use nitrite test strips to maintain nitrite levels in line with manufacturers guidelines. The dosage required is dependent on water conditions and other workplace requirements.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Properties

Appearance: Blue Liquid

Density @ 20°C: 1.2-1.3

pH (concentrated): 12-14

Shelf Life

Storage: 24 months

Available in the following containers





FIS SEACLEAN EXTRA

Description

FIS Seaclean Extra is a multipurpose tank cleaner for removing deposits of mineral oil based cargo.

Application

This product is suitable for deep tank and double bottom cleaning and general degreasing of engine rooms.

Dilutions

- Direct Injection method 1-2Ltr per tonne of wash water.
- Hand spray cleaning – use undiluted to spray on bulkheads, frames and stringers.

Leave for sufficient dwell time dependent on the degree of contamination and wash off with water.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Liquid, colourless to pale yellow.

Density @ 20°C: ~0.9

pH (concentrated): ~ 7.0

Shelf Life

Storage: 24 months

Available in the following containers





FIS Strong Clean

Description

FIS STRONG CLEAN is a heavy duty water based alkaline cleaner. It has numerous cleaning applications including removal of sludge, soot, carbon deposits, greases, vegetable and animal's oils, waxes, grime and dirt. Does not contain nonphenol or other estrogenic compounds.

Dilutions

Immersion Baths: Use Neat

Rust & Stain removal: 1:20

Heavy contamination: Use Neat

Oil contamination: 1:20

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Yellow Liquid

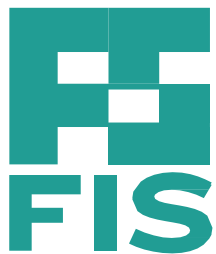
pH (concentrated solution): 7-8

Shelf Life

24 months

Available in the following containers





FISZYME Range

Product Name	Function	Package Size
FISZYME BIO-URINAL BLOCKS	Cleans and deodorizes urinal traps and pipes, particularly in public buildings and institutions.	3 kg
FISZYME DIGESTOR	Designed for the maintenance of drain lines, pipes and grease traps serving the catering and food manufacturing industry. Also designed for use in sewers and pumping wells. Contains harmless, naturally occurring micro-organisms selected for their ability to produce enzymes capable of degrading oils, fats and greases commonly found in drains, grease traps, drain lines, sewers and for the breakdown of other waste materials including starch, protein and vegetable matter.	20 Litre
FISZYME 700	Dry powder developed to break down organic waste found in pipes, collection tanks and sewage systems. Primarily for the treatment of Marine Black water and kitchen waste. The product is a blend of concentrated EU registered bacteria selected for their ability digest a diverse range of organic pollutants from fats and grease to complex starches and proteins.	12 KG
FISZYME DPC	A biological product developed to break down organic waste found in pipes and drains. Designed for use in vacuum systems and areas of restricted flow to clear blockages of organic material.	4 KG (16 x 250g sachets)
FISZYME BTC	Biological Cleaner for Toilets, Sinks & Waste Pipes. Reduces lime scale and uric acid deposits. Removes organic waste and foul odours. Ideal for both hard surfaces and porous flooring. Fast acting ready to use product. Neutral pH containing friendly bacteria and low foaming surfactants.	12 X 1 Litre
FISZYME TDS	Biological Descaler for toilets, pipes, drains and black water vacuum systems. A combination of Fruit acids and bacteria to provide a one product solution for the removal of hard scale and organic waste. Quick start chemical reaction to breakdown and remove Uric and Struvite hard scale.	5 kg (100 x 50g sachets)
FISZYME BOE	Fiszyme BOE rapidly neutralises and eliminates odours without using odour- masking or harmful chemical oxidisers. Fiszyme BOE is formulated to eliminate odours in garbage and waste storage areas, rest rooms, galleys etc. providing a rapid and long lasting effect	12 x 1 Litre



FISZYME TDS

Description

FISZYME TDS is Biological Descaler for toilets, pipes and drains.

A combination of Fruit acids and bacteria to provide a one product solution for the removal of hard scale and organic waste.

- Easy to use water soluble sachet
- Biological powder with a two-year shelf life
- Quick start chemical reaction to breakdown and remove Uric and Struvite hard scale.
- Bacteria and Enzymes to attack the build-up of organic waste.
- Effective for Toilets, drains and Black water vacuum systems.

FISZYME TDS has been developed for urgent repairs and long term maintenance as a means of keeping pipes blockage free

Application

Existing blockages: Dissolve one sachet in the toilet bowl and flush. Repeat once per day for four days.

Maintenance: Use one sachet per week.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Properties

Appearance: Crystalline Powder, Blue

Density @ 20°C: 2.5

pH (concentrated): 11

Shelf Life

Storage: 24 months

Available in the following containers





Ultrachlor - Sodium Hypochlorite 14%

Description

A pale, clear yellow liquid which has an odour of Chlorine.

Application

Sodium Hypochlorite kill germs and odours caused by decomposing of organic matter. For use to chlorinate potable water, swimming pools and spas.

- Destroys bacteria in minutes
- Sterilises equipment
- Destroys algae in water
- Disinfects all toilet areas.

Dilutions

For general cleaning and removal of staining on ceramic, china etc, dilute Sodium Hypochlorite up to 200-1.

For drains, waste pipes, bins, urinals, showers and equipment dilute up to 100-1.

For sterilization of water, please refer to the "Chlorination of Fresh Water" leaflet.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Properties

Appearance: Yellow to green

Density @ 20°C:

1.11 g/cm³ 10% Solution

1.317 g/cm³ 15% Solution

11.24 g/cm³ 20% Solution

pH (concentrated): > 11

Shelf Life

Storage: 3 months

Avoid direct sunlight and extreme temperatures. Store sealed to avoid air exposure.

Available in the following containers





Ultrachlor - Sodium Hypochlorite 14%

Description

A pale, clear yellow liquid which has an odour of Chlorine.

Application

Sodium Hypochlorite kill germs and odours caused by decomposing of organic matter. For use to chlorinate potable water, swimming pools and spas.

- Destroys bacteria in minutes
- Sterilises equipment
- Destroys algae in water
- Disinfects all toilet areas.

Dilutions

For general cleaning and removal of staining on ceramic, china etc, dilute Sodium Hypochlorite up to 200-1.

For drains, waste pipes, bins, urinals, showers and equipment dilute up to 100-1.

For sterilisation of water, please refer to the "Chlorination of Fresh Water" leaflet.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Properties

Appearance: Yellow to green

Density @ 20°C:

1.11 g/cm³ 10% Solution

1.317 g/cm³ 15% Solution

11.24 g/cm³ 20% Solution

pH (concentrated): > 11

Shelf Life

Storage: 3 months from filling.
Avoid direct sunlight and extreme temperatures. Store sealed to avoid air exposure.

Available in the following containers





Heavy Duty Foam Oven Cleaner

Description

The foam spray enables the product to cling to surfaces for improved cleaning. For use on grills, ovens and any equipment where caramelised grease or oil is evident. Provides quick, effective maintenance of internal and external areas of ovens etc. Not suitable for the removal of hard, baked on carbon deposits.

Application

To apply, preheat oven to 60 -80°C and switch off. Spray product evenly over the surfaces to be cleaned and leave for a few minutes. Wipe with a damp cloth or pad. A second application may be needed for heavy deposits. Rinse off with a 1:1 mixture of water and vinegar. Do not use on plastic or painted surfaces.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

- Store in cool conditions away from direct sources of heat
- Avoid extremes of temperature
- Do not allow to freeze
- Ensure the cap is tightly fitted after use
- Keep out of reach of children

Properties

Appearance: Clear liquid

Density @ 20°C: ~1.0-1.1

pH (concentrated): 13-14

Shelf Life

Storage: 24 months

Use within 6 months of opening.

Available in the following containers

750mL x 6

Mergal K9N (Fuel Biocide)

Description

Mergal K9N is a broad-spectrum microbicide that is effective in when fuel contamination is found in marine diesel fuel.

Applications

Mergal K9N is a microbicide for to combat a variety of micro organisms contaminating fuel tanks and systems.

The product performs best under the following conditions:

- pH between 3-9
- Temperatures up to 60°C
- In the absence of reducing agents

Dosing

Typical dose rates are for Mergal K9N:

- To control growth in fuels (i.e as a regular preventative dose: 0.01-0.05% (100-500ppm) or 0.1 to 0.5Ltrs biocide per 1000Ltrs fuel.
- To treat heavily spoilt fuel and kill existing infection: 0.10-0.25% (1000-2500ppm) or 1 to 2.5Ltrs per 1000ltrs fuel.

It is very important to get thorough mixing and thorough distribution to all areas of the fuel tank. Adding all the biocide in one lot is not recommended as it may result in uneven distribution. A dosing/metering pump is best if the fuel cannot be circulated around the tank.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Colourless to yellow liquid
Density @ 20°C: ~1
pH (concentrated solution): ~4.5

Shelf Life

Storage: 24 months

Available in the following containers





Neutral Deruster

Description

A new and innovative product designed to efficiently remove rust from ferrous metals. In contrast to products based on strong acids such as hydrochloric or phosphoric etc, Neutral Deruster has a neutral pH and presents a reduced risk to the operator when used as intended.

Directions

The product should be diluted with water before use. One part product to two parts product offers relatively rapid derusting.

- Heating and circulation of the product will increase the speed of the process.
- The product contains wetting agents to break down surface contamination and ensure even coverage.
- Corrosion inhibitors have been added to prevent the formation of flash rust.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations. **The components meet MARPOL Annex V criteria and maybe discharged in to the sea.**

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Colourless/ pale yellow
liquid
pH (concentrated solution): ~6.0-8.0
Density @ 20°C: ~ 1.22-1.28

Shelf Life

Storage: 24 months

Available in the following containers



Offshore Degreaser EF

Description

This product is designed for general cleaning of decks, bulkheads and any equipment washing including degreasing of deluge systems.

Dilutions

Dilutions are given as a guide only and depend on many factors such as temperature, type and degree of soiling. The following dilutions are suggested as guidance only:

- Heavy Duty Cleaning 2 - 5 to 1
- General Cleaning 10 to 1
- Light Degreasing 10 - 20 to 1

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations.

OFFSHORE DEGREASER EF is listed with CEFAS with a Gold rating. A template is available on request.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance Colourless Liquid
Density @ 20° C: 1.0-1.1 g/cm³
Flash Point: Non-flammable

Shelf Life

Storage: 24 months

Available in the following containers



Heavy Duty Foam Oven Cleaner

Description

The foam spray enables the product to cling to surfaces for improved cleaning. For use on grills, ovens and any equipment where caramelised grease or oil is evident. Provides quick, effective maintenance of internal and external areas of ovens etc. Not suitable for the removal of hard carbon deposits.

Product Features

An effective heavy duty alkaline cleaner for use on grills, ovens and any baked-on grease or oil. Do not use on plastic or painted surfaces.

Application

- Warm oven to 60-80oC.
- Turn oven off and spray evenly over the surfaces to be cleaned.
- Leave for a few minutes and then wipe with a damp cloth or pad.
- A second application may be needed for heavy or burnt-on deposits.
- Rinse off with a 1:1 mixture of water and vinegar.
- Do not use on plastic or painted surfaces.
- Always wear protective clothing (see section 2 and section 8 of Material Safety Data Sheet for advice on handling this product).

Environmental Hazards

Dispose of chemicals in accordance with local environmental legislation.

- Neat product will cause damage to plant and animal life.
- Do not allow large quantities of neat liquid to enter surface waterways.
- In the event of a large spillage, contact the local water authority or Environment Agency immediately

Handling

Health and Safety warning – Corrosive

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.

Properties

Appearance: Colourless Clear Liquid

Density @ 20°C: ~1.08

pH (concentrated): 13.0-13.6

Shelf Life 12 Months

Available in the following containers:

Case of 6 x 750ml





Gold Fuel Treatment **ARCTIC**

For cleaner and more effective combustion

- ECHA and EPA Registered
- Pour Point Depressant
- Fuel Catalyst + Anti-Gel
- Better Lubricity
- Reduced Emissions
- For Harsh Winter Conditions
- Disperses Water
- Cleans Injectors
- Reduced CFPP

PRODUCT DESCRIPTION

EffiTab Gold Fuel Treatment **ARCTIC** Is a unique blend of copolymers as well as our EffiTab Gold Fuel Treatment **ARCTIC** fuel catalyst formulated to lower the cold filter plug point of winter blend diesel fuels.

EffiTab Gold Fuel Treatment **ARCTIC** Prevents gelling or the formation of crystals, with specially formulated pour point depressant chemistry to provide maximum flow/pouring capabilities in diesel and biodiesel fuels.

EffiTab Gold Fuel Treatment **ARCTIC** Advanced formulation provides superior performance to help prevent filter plugging in cold temperatures and to eliminate the problems associated with water present in fuel.

APPLICATIONS

EffiTab Gold Fuel Treatment **ARCTIC** Is developed to be used with #1, #2 and Biodiesel fuels used in any diesel fueled engine.

EffiTab Gold Fuel Treatment **ARCTIC** Is capable of preventing gelling of diesel fuels as low as -47° C. Note: treat ratios vary from 1:250 to 1:4000 depending on your location temperature.

BENEFITS

EffiTab Gold Fuel Treatment **ARCTIC** Inhibits growth of wax crystals in storage tanks and equipment/truck fueling systems.

EffiTab Gold Fuel Treatment **ARCTIC** Depresses the pour point, allows fuel to flow easier in cold temperatures.

EffiTab Gold Fuel Treatment **ARCTIC** Improves CFPP (Cold Filter Pour Point) behavior. Recommend installing a new fuel filter before colder temperatures arrive in your area.

EffiTab Gold Fuel Treatment **ARCTIC** Increases the BTU value of the diesel fuel. There is no alcohol in the formula of **ARCTIC**.

EffiTab Gold Fuel Treatment **ARCTIC** Reduces need to use kerosene dilution for pour or flow control.

Available in 19 litre barrels and oil drums 205 litres.

For more information regarding engine performance and technical processes, please contact us at office@effitab.com.

EffiTab International AB

Folke Bernadottes väg 445
256 57 Ramlösa
E-post: office@effitab.com



www.effitab.com



Gold Fuel Treatment **HFO** /

For cleaner and more effective combustion

- **Combustion-improving fuel additive solution containing nano-catalyst particles in a proprietary blend of aromatic hydrocarbon solvents**
- **Contains only compounds that have been registered with the United States Environmental Protection Agency**
- **Contains no sulphur, no phosphorus, nor halogens**

PRODUCT DESCRIPTION

- Catalyzes the combustion of hydrocarbon fuels to achieve a more complete burn and prevent engine knock.
- Effective with all grades of heavy fuels.
- Blends readily with fuel for one-step treatment of bulk storage tanks.
- Sublimates after combustion with no harmful by-products, as per US EPA.
- Does not interact with water shedding properties.
- High purity level will not harm boilers or engines and will not void warranties.
- Will not adversely affect fuel stability, cold-flow properties and bacteria growth.
- Does not interact with fuel colorants and markers.
- Safe to transport, store and handle.

APPLICATIONS

- Recommended dosage rate is 1 part **EffiTab Gold Fuel Treatment HFO** to 5,000 parts heavy fuel oil (by volume) for continuous usage.
- For initial charging dosage use 1 part **EffiTab Gold Fuel Treatment HFO** to 4,000 parts fuel.
- For use in all grades of residual fuels.
- Treated fuel can be safely burned in boilers and all types of diesel engines.

BENEFITS

- Reduces fuel consumption, typically by 2 to 5%.
- Reduces diesel particulate emissions by up to 43%.
- Improves combustion efficiency and reduces CO emissions.
- Keeps fuel injectors and turbochargers cleaner and extends oil change intervals.
- Acts as a high temperature lubricant, inhibiting mechanical abrasion to prolong engine life and reduce engine wear.
- Reduces polluting exhaust emissions, including visible black smoke, particulates, CO, NOx and total amount of CO2.
- Reduces maintenance costs and spare parts consumption by preventing soot formation and carbon deposits.
- Improves lubricity with low sulfur fuel.

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Gold Fuel Treatment HFO /

For cleaner and more effective combustion

TYPICAL PHYSICAL PROPERTIES

- Clear, dark yellow liquid
- Aromatic odor
- Specific Gravity: 0.89 @ 20 °C
- Flash Point: 62.8 °C (closed cup)
- Crystallization Point: below -8 °C

STORAGE AND HANDLING

EffiTab Gold Fuel Treatment HFO fuel treatment is readily pumpable and self-feeding into the suction side of a metering pump, from unheated additive storage at temperatures above -20 °F (-29 °C). It is stable in mild steel and in aluminium storage tanks, or when properly stored in its original containers for at least 12 months. It is an industrial chemical and should be handled with the same precautions as used with ordinary distillates, solvents, and weak alkalis. Avoid open flames. Avoid skin and eye contact. Wash contaminated areas with soap and water.

AVAILABILITY

EffiTab Gold Fuel Treatment HFO is available in non-returnable 19 litre barrels and oil drums 205 litres. Product ships from North America to major seaports under HS Tariff Classification Number: 3811.19.00.

For more information regarding engine performance and technical processes, please contact us at office@effitab.com.

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Gold Fuel Treatment

For cleaner and more effective combustion

- ECHA and EPA registered
- For Use in Diesel and Gasoline Engines
- Reduces Fuel Consumption and Emissions
- Increases Engine Performance
- Adds Lubricity

PRODUCT DESCRIPTION

EffiTab Gold Fuel Treatment Is a super concentrate combustion improver, specially formulated to maximize both performance and fuel economy, and will allow your fleet to save operating costs by reducing emissions, increasing fuel economy and providing cleaner running equipment.

EffiTab Gold Fuel Treatment Can be used with #1, #2 diesel and gasoline at a ratio of 1:4000 dramatically reducing the carbon particulate emissions while simultaneously reducing the excess air requirements.

EffiTab Gold Fuel Treatment will increase combustion efficiency by reducing fouling and corrosion thereby improving heat transfer, extending equipment life, reducing maintenance costs and minimizing interruptions of equipment operations.

EffiTab Gold Fuel Treatment Environmental benefits all types of combustion applications by promoting the combustion of the carbon particles (soot) and condensed tar from the incomplete combustion of untreated fuels.

APPLICATIONS

EffiTab Gold Fuel Treatment Is effective in industrial boilers and diesel engines of all sizes and is used in marine shipping, power generation, mining, construction, ground transportation and wherever high fuel prices or compliance with emissions or opacity regulations is a concern.

BENEFITS

EffiTab Gold Fuel Treatment Can be used with all grades of diesel fuel, JP8, kerosene and gasoline. Fuel treatment includes better engine performance, extended equipment life and reduced maintenance costs.

EffiTab Gold Fuel Treatment Reduces fuel consumption across a wide range of fossil fuels.

EffiTab Gold Fuel Treatment Reduces greenhouse gas (CO₂), acid rain gases (SO₂ and SO₃), soot (black smoke), carbon build-up, fouling, slagging and cold-end Corrosion. **All are reduced.**

Available in 9 litre barrels and oil drums 205 litres.

For more information regarding engine performance and technical processes, please contact us at office@effitab.com.

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www.effitab.com



Marine Rust Remover HD

Description

Rust Remover HD is a high-performance rust remover for many industrial applications. It is ideal for the fast, efficient removal of rust from decks, bulkheads and ferrous surfaces. It is based on phosphoric acid and contains inhibitors to prevent flash rusting, after use. Rust Remover HD contains approximately 50% more active rust dissolver than our standard rust remover and is intended to be used in demanding applications where the volume of rust is high or where rapid results are desired.

Application

Immerse corroded items into liquid until all corrosion is removed. Hose off product with fresh water.

Dilution

ALWAYS add the product to water and not the reverse. Once diluted to the desired strength, the product can be used as in a dip-tank or brushed on. Typical dilutions can range from 1:10 to 1:2 (parts product to parts water).

Neutralising solutions are also available from FIS if required.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations. The components meet MARPOL Annex V criteria and maybe discharged in to the sea.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Clear liquid

Density @21°C: 1.2 - 1.3

pH (concentrated solution): <2

Shelf Life

Storage: 24 months

Available in the following containers





Rust Remover

Description

This is an ideal product for the fast, efficient removal of rust from decks, bulkheads and surfaces. It is a phosphoric acid based product which contains inhibitors to prevent flash rusting, after use.

Application

Immerse corroded items into liquid until all corrosion is removed. Hose off product with fresh water. The product is also available as a gel for the safe removal of rust from vertical surfaces and even from overhead locations.

Dilution

Brush onto surface neat, leave for sufficient contact time for the rust to be removed, then rinse with copious amounts of water. The product can be used as a dip-tank and may be diluted up to 10:1 for this purpose.

Environmental

Dispose of chemicals in accordance with local environmental legislation Local environment registrations. The components meet MARPOL Annex V criteria and maybe discharged in to the sea.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further, details please refer to the safety data sheet.

Properties

Appearance: Blue liquid

Density @20°C: 1.19

pH (concentrated solution): <2

Shelf Life

Storage: 24 months

Available in the following containers



SUPER DISPERSANT 25

Description

Super Dispersant 25 is an internationally approved Type 2/3 marine oil dispersant, suitable for application from both the air and sea vessels. Also suitable for oil spills on both water and coastal areas such as beaches, shorelines and harbour walls.

With approval from UK FEPA (Food and Environmental Protection) CEDRE in France and ROPME in the Middle East.

- High flash point not classified as flammable
- Poses no threat to operators when stored
- Internationally approved (UK, France and Middle East)

Application

The recommended rate of application of SuperDispersant 25 is 1 part dispersant to 20-30 parts of oil. This rate depends on many factors including type of oil, viscosity, degree of weathering, ambient temperature and prevailing weather conditions.

In general, the oil should be treated as quickly as possible, as weathering increases the viscosity of the oil, and this in turn necessitates a substantial increase in the dispersant required.

As a Type 2 dispersant (water dilution mode), SuperDispersant 25 is used premixed at a ratio of 1 part dispersant to 10 parts sea water and sprayed onto the slick using surface breaker boards or other enhanced agitation techniques to give greater mixing of the dispersant/oil emulsion.

As a Type 3 dispersant (undiluted mode), SuperDispersant 25 is used in its neat form, utilising appropriate spraying equipment from aircraft or vessels onto the slick.

In all circumstances, the Type 3 mode is the preferred method as this gives far greater efficiency in the dispersal of the oil slick.

Ideally SuperDispersant 25 is sprayed undiluted from bow mounted spray booms in order to take advantage of the "roll-over" effect of the vessel's bow wave.

If SuperDispersant 25 is used in the diluted mode, additional agitation is required by the use of surface breaker boards or fire hoses.

Properties

Appearance: Liquid , Amber

Density @ 20°C: 0.95-1.05

pH (concentrated): 5.5-7.5

Shelf Life

Storage: 24 months

Available in the following containers



Aerial Application

SuperDispersant 25 can be applied by a wide variety of rotary and fixed wing aircraft, particularly dedicated spraying aircraft if these are available.

It must be emphasised that due to aircraft speed, atomisation of the dispersant must be reduced by using a spray nozzle system that will give a large droplet size (700 - 1200 microns)

The rate of application for SuperDispersant 25 to the slick will vary according to a number of parameters. It can generally be estimated that if a slick is dark brown/black in colour, it will have a thickness of 100 - 200 microns.

This would represent 1-2 tonnes of oil per hectare and would require 50 - 100 litres per hectare of dispersant to treat the slick.

The discharge rate for SuperDispersant 25 can be obtained from the general relationship:

$$\begin{array}{ccccccc} \text{DISCHARGE RATE} & = & \text{APPLICATION RATE} & \times & \text{SPEED} & \times & \text{SWATHE WIDTH} \\ \text{(litres/min)} & & \text{(litres/m}^2\text{)} & & \text{(m/min)} & & \text{(m)} \end{array}$$

On Beaches, Rocky Shores, and Harbour Walls

Spray the undiluted SuperDispersant 25 on to the contaminated areas using portable back sprayers or dedicated beach cleaners if these are available.

It is preferable to spray in front of a rising tide, in order to effect rapid natural dispersion.

At all times advice should be sought from the incident commander.

Environmental

Dispose of chemicals in accordance with local environmental legislation.

Handling

Normal precautions should be taken for handling chemicals. Protective clothing, eye protection and gloves should be worn. For further details please refer to the safety data sheet.

Storage

Store in a cool, dry location between 5°C and 25°C. Protect from freezing. Avoid direct sunlight and extreme temperatures. Store the product sealed in the original container to avoid air exposure. Some products may settle during storage or transportation, ensure thorough mixing before use. See safety datasheet for list of incompatible materials and other relevant information.