

## 55

## Cleaning Material &amp; Chemicals

Laundry Soap and Detergent  P. 55-1	General Cleaning Detergent  P. 55-2 ~ 5	Hand Cleaning Soap and Detergent  P. 55-5 ~ 7
Misc. Cleaner and Polish Goods  P. 55-7 ~ 10	Floor Maintenance Products  P. 55-10 ~ 12	Sanitary Items  P. 55-12 ~ 15
Distilled Water P. 55-15	Common Chemicals P. 55-16 ~ 22	Marine Maintenance Chemicals  P. 55-22 ~ 33

## Solid Soap

Jabón Sólido 洗濯石鹼 肥皂

High grade yellow laundry soap, solid cakes or bars.



CODE	grm Per Pc.	Case Contains	CODE	grm Per Pc.	Case Contains	Unit Per Pc.
Cake			Bar			
55 01 01	225	60	55 01 02	600	30	

## Laundry Soap Powder

Detergente en Polvo 粉石鹼 洗衣皂粉

Throughly cleans all washable fabrics, cotton and tectoron. Furnished in 500 grm & 1 kg packets, 10 kg in cartons, and 20 kg in woven bag.



CODE	Weight	Packaging	Unit
55 01 07	500 grm	24/Case	Pkt
03	1 kg	-	Pkt
08	10 kg	-	C/T
04	20 kg	-	Bag

## Laundry Soap Powder with Enzyme

Detergente en Polvo con Enzima

酸素入り粉石鹼 衣物柔順剤 加酶洗衣皂粉

Higher performance laundry soap powder with stain removal efficiency by enzyme power. Also effective with cold water washing.



Unit Per Pkt.

CODE	Weight	CODE	Weight
55 01 10	1.0 kg	55 01 11	1.2 kg

## Laundry Detergent Sheets

Hojas de detergente 洗濯用洗剤シート 洗衣粉片

Laundry detergent sheets are the answer to plastic-free maritime laundry.



Each sheet contains the same detergent content as a dose of liquid, powder or a pod but comes in a cardboard packet weighing up to 16 times less than conventional plastic detergent containers or boxes and taking up a fraction of the space onboard. Simply place one sheet of detergent into the drum of the washing machine with the dirty clothes and then it disintegrates completely when in contact with water leaving nothing but spotlessly clean clothes.

Each small box can contain 25, 30, 50 or 75 detergent sheets. Sheet size is 140 x 110mm and 1mm thick. Available in bio and non-bio options.

55 01 12 13	Laundry detergent sheets, bio type Laundry detergent sheets, non-bio type	Sht Sht	
----------------	--	------------	--

## Laundry Starch

Almidón en Aerosol 洗たくのり 喷雾

Starch for laundry in aerosol type or emulsion type.



Aerosol

Emulsion

Unit Per Tin			Unit Per Btl.		
CODE	Type	Content	CODE	Type	Content
55 01 15	Aerosol	330 ml	55 01 16	Emulsion	600 ml

## Laundry Starch Powder

Almidón en Polvo 粉末洗たくのり 洗衣粉

For use with water to stiffen clothes, curtains, etc. Packed 1 kgs and 150 grm in a polythene bag.



CODE	Size	Packaging	Unit
55 01 17	150 grm	80/Case	Bag
18	1 kg	15/Case	"

## Bleaching Water for Laundry

Agua para blanquear la ropa 衣料用漂白剤 洗衣漂白水

A liquid chlorine bleach containing deodorizer which is added to the water when washing clothes.



Unit Per Btl.

CODE	Content	CODE	Content
55 01 20 22	600 ml 1 kg	55 01 21	1,500 ml

## Laundry Softener

Suavizador de ropa 柔軟仕上剤 衣物柔顺剂

Fabric softener that reduces static cling and makes clothes easier to iron.



55 01 24 25	Laundry softener, "	1.65 ltr 2.5 ltr	Btl "
----------------	------------------------	---------------------	----------

## Soft Soap

Jaboncillo 軟石鹼 软肥皂

A semi-liquid soap for general cleaning. Made from vegetable oil mixed with soap and can be used when mixed with water for cleaning painted surfaces, woodworking and for general deck cleaning. Furnished in 18 kg cans.

55 01 28	Soap, soft, 18 kg	Can
----------	-------------------	-----

## General Cleaning Detergent

Detergente en Polvo de Limpieza General 一般用粉石鹼 普通洗涤剂

For general cleaning and manual dishwashing as well as for cleaning painted or varnished surfaces, floors, windows, mirrors, bathtubs, basins, and tiles.



Unit Per Bag

CODE	Type	Content	CODE	Type	Content
55 01 30	ALVA	10 kg	55 01 36	Local brand	20 kg

Unit Per Btl.

CODE	Contents	CODE	Contents
55 01 45 46	2 kg 10 kg	55 01 47	20 kg

## Bleaching Water for Kitchen

Solución Blanqueadora para la Cocina

台所用漂白剤 廚房用漂白劑



A liquid chlorine bleach for sanitizing cutting boards or kitchen cloths.

## Heavy Duty Detergent

Detergente en Polvo de Limpieza General  
強力粉石鹼 重荷洗涤剂

For general cleaning and manual washing as with the above detergent but for heavy duty use



Unit Per Bag

CODE	Description	Content	CODE	Description	Content
55 01 33	ALVA KRAFT	10 kg	55 01 37	Local brand	25 kg

Unit Per Btl.

CODE	Content	CODE	Content
55 01 48	600 ml	55 01 49	1,500 ml

## Cleanser

Limpiador en Polvo クレンザー 清洗剂



For cleaning and polishing pots, kettles, sinks, bathtubs, earthenware porcelain, aluminium, and stainless steel.

Can be used for floors, woodworks or wherever dirt and grease collects.

CODE	Name	Size	Package	Unit
55 01 51	Galley powder	400 grm/tin	24/ctn	Tin
55 01 53 54	Vim	500 grm/tin	20/ctn 12/ctn	C/T "

## Laundry Machine Detergent

Detergente en Polvo para Lavadora

洗濯機用粉石鹼 洗衣机用洗涤剂



Made of synthetic powder with a bleaching agent for all kind of fabric. For machine use only.

55 01 34	Laundry machine detergent, 10 kg	Bag
----------	----------------------------------	-----



## Liquid Soap

Japón Liquido 液体洗剤 洗洁精

A liquid detergent for washing tableware and kitchen utensils. Formulated to cut greasy stains in a wide range of conditions including hard water. Soft and mild on the hands.

CODE	Name	Size	Packaging	Unit
55 01 41	Soap Liquid for Galley	800 cc btl	12/case	Btl.
42	Soap Liquid for Galley	18 kg can		Can
43	Soap Liquid Teepol	18 kg can		Can



## Scouring Cream

Crema limpiadora クリームクレンザー 洗涤乳

Contains soft abrasives suitable for scouring kitchen tables, cooking pans or stainless steel fittings in the bathroom as well as tiles, enamels, etc.

55 01 56 57 58	Scouring cream	, 400 grm , 2.8 kg , 5.6 kg	Btl
----------------------	----------------	-----------------------------------	-----

## All Purpose Liquid Cleaner with Ammonia

Limpiador Líquido Multi-usos/con Amoniaco

多目的液体クリーナー 多功能清洁剂



Tough institutional cleaner which works on all washable surfaces including linoleum, tile, walls, woodwork, venetian blinds, porcelain and appliances. Contains a dirt and grease removal agent called "ammonial".

Dilute at a ratio of 1/4 cup of cleaner to a gallon of water and you get a powerful cleaning solution that doesn't need to be rinsed or wiped dry.



## Disinfectant Liquid Soap

Japón Líquido Desinfectante 液体殺菌中性洗剤 杀菌液体肥皂

A neutral type condensed liquid detergent with disinfectant effect especially for washing knives, cutting boards, including galley equipment, such as slicers, meat choppers, etc. Will eliminate extra times because of the unique pre-mixed components for washing and disinfecting.

For windows or mirrors, use 1 teaspoon of cleaner per gallon of water and wipe dry. For spots, stubborn stains or tough jobs, use at full strength and rinse afterwards. Mild on the hands and non-flammable.

### Warning!

**Do not use in combination with chlorine.**

CODE	Content	Packaging	Unit Per C/T
55 01 61	28 oz	12 btl/case	
63	750 ml	16 btl/case	
60	2 ltr	6 btl/case	

### Toilet Cleanser

Limpiador de Baño トイレ洗浄剤 廁所清潔劑

A neutral ingredient cleanser for removing dirt spots and scales over the toilet bowl.

CODE	Q'ty	CODE	Q'ty	Unit Per Btl.
55 02 35	500 ml	55 02 36	800 ml	



### Uric Acid Cleaner Concentrate

Limpiador de ácido úrico concentrado  
濃縮タイプトイレ洗浄剤 尿酸清洁浓缩液

A blend of concentrated cleaners for effective removal of uric acid deposits. Strong acid to be handled with caution, suitable for all types of marine sanitation systems.



55 02 37	Uric Acid Cleaner Concentrate, 25 ltr	Drum
----------	---------------------------------------	------

### Heavy Duty Kitchen Liquid Cleaners

Limpiador Líquido Extrafuerte para Multi-usos  
台所用強力洗剤 多功能重任务液体除垢剂

An all purpose liquid cleaner with grease-cutting formula for cleaning greasy kitchen dirt. Use diluted or at full strength.



Unit Per Btl.

Concentrated		Spray	
CODE	Q'ty	CODE	Q'ty
55 01 65	500 ml	55 01 73	400 ml
70	800 ml	74	Refill (400 ml)

### Grease Remover for Kitchen Plates

Quitagrasas para superficies de cocina  
台所用グリースリムーバー 厨房表面除油剂

Specially formulated for the cleaning of kitchen griddles and ovens. Highly alkaline product specially formulated for the cleaning of metal surfaces, which makes it specially suitable for use on kitchen griddles. It contains tensioactives and special components which help the product soak the griddle.



55 01 79	Grease remover for kitchen plate surface, 5 ltr	Btl.
----------	---	------

### Grease Remover for Kitchen

#### Eco-friendly

Desengrasante de Cocina, Ecológico

台所用エコグリース洗浄剤 厨房油脂去除剂

Powerful degreaser which thoroughly removes all stubborn dirt and grease. Suitable for cleaning any type of hard surface that is not damaged by water. Ideal for thoroughly cleaning kitchens, grilles, ovens, extractor hoods, tiles... Pleasant citrus allergen-free fragrance. Phosphate-free. Cruelty free. Dermatologically tested. Recycled and recyclable packaging. No dangers, no transport restrictions.



55 01 92	Grease remover for kitchen, eco-friendly, 750 ml	Btl.
55 01 93	Grease remover for kitchen, eco-friendly, 5 ltr	Btl.

### General Purpose Liquid Cleaners

Limpiador Líquido para Uso General

一般そうじ用洗剤 普通用液体除垢剂

A concentrated general purpose cleaner for use on all surfaces not harmed by water. Cleans floors, porcelain, leather, plastic, stainless steel, aluminium surfaces, and appliances. Dilute before using for concentrated type.



Concentrated Spray  
Unit Per Btl.

Concentrated		Spray	
CODE	Q'ty	CODE	Q'ty
55 01 68	500 ml	55 01 75	400 ml
69	2,000 ml	76	Refill (350 ml)

### Biodegradable Multi-Purpose Cleaner "Rydlyme Marine® Boat Cleaner"

Limpiador multiusos biodegradable

生分解性多目的クリーナー 生物可降解多用途清洁剂

A powerful, multi-purpose, multi-surface detailing cleaner. RYDLYME Marine® Boat Cleaner is biodegradable and scientifically formulated to clean and eliminate oil, grease, grime, dirt and many other pollutants from all types of surfaces. This ready-to-use, non-toxic formula contains no

bleach or ammonia. Just spray it on, let it penetrate the deposit for 20-30 seconds and rinse off and/or wipe clean with a damp cloth. For larger or tougher jobs that may require brushes, pressure washer or other equipment. Please shake bottle before use.



CODE	Contents	CODE	Contents
55 01 86 87	6 x 710 ml / case 4 x 3.8 ltr / case	55 01 88 89	18 ltr / pail 208 ltr / drum

Name of Mfr.: Apex Engineering Products Corporation



## Bathroom Cleaning Liquid

Limpiaador Líquido para Cuarto de Baño

浴室用洗剤 洗室清潔液

Heavy duty cleaner for cleaning bath tubs and wall surfaces in bathroom.



Concentrated



Spray

Unit Per Btl.

Concentrated		Spray	
CODE	Q'ty	CODE	Q'ty
55 01 71 72	500 ml 4 ltr	55 01 77 78	400 ml Refill (350 ml)

## Bathroom Cleaning Liquids

Eco-friendly

Líquidos limpiadores para cuartos de baño, Ecológico

浴室用エコ洗剤 洗室清潔液

Its powerful formula cleans and descales the most stubborn dirt, avoiding and preventing the formation of incrustations, limescale and rust. Ideal for daily cleaning of the bathroom; taps, showers, tiles, bathtubs etc. Phosphate-free. Allergen-free fragrance. No artificial colourings. Cruelty free. Dermatologically tested. Recycled and recyclable packaging. No dangers, no transport restrictions.



55 01 90	Bathroom cleaning liquid, eco-friendly, 750ml	Btl.
55 01 91	Bathroom cleaning liquid, eco-friendly, 5 ltr	Btl.



## Mold Cleaners

Limpiaador de Moho カビキラー 除霉劑

For destroying and preventing mold germination over the surface in saturated area, especially in kitchens and bathrooms. Please wash your hands and eyes after spraying to avoid irritating to the skin or eyes.



Unit Per Btl.

CODE	Q'ty	CODE	Q'ty
55 02 31 32	400 grm Refill (400 grm)	55 02 33 34	1,000 grm Refill (1,000 grm)

## Washroom Cleaners

Eco-friendly

Limpiaadores de lavabos, Ecológico

洗面所用エコ洗剤 手洗間清潔剂



Probiotic biological solution using UK-cultivated, sustainably-sourced enzymes to break down organic matter and odour. Non-harmful to marine and aquatic life, no long-term adverse environmental effects. Complies with all current and forthcoming legislation, including EC Detergent Regulation 1272/2008 and REACH 1907/2006.

Bottle made from 30% recycled plastic.

55 01 96	Washroom cleaner, eco-friendly, 750 ml	Btl.
55 01 97	Refill for washroom cleaner, eco-friendly, 5 ltr	Btl.



## Dishwashing Detergents

Eco-friendly

Detergentes lavavajillas, Ecológico

食器洗浄機用エコ洗剤 餐具洗涤剂



Dishwashing liquid specially formulated to remove the most stubborn grease and dirt from all types of dishes. Dilute 1 ml of product per litre of water for moderate dirty dishes. Phosphate-free. Fragrance-free and no artificial colourings. Cruelty free. Dermatologically tested. Recycled and recyclable packaging.

No dangers, no transport restrictions.

55 01 94	Dishwashing detergent, eco-friendly, 750ml	Btl.
55 01 95	Dishwashing detergent, eoc-friendly, 5 ltr	Btl.



## Dish Washing Machine Detergent

Detergente para Máquina Lavavajillas

食器洗浄機用洗剤 洗碗碟机洗涤剂



A strong alkaline detergent in powder or liquid for use with any type of dish-washing machine. Creates very little foam. Please pay attention of mixing density with water according to the instruction of usage from each manufacturer.

**Caution!**

Don't use the detergent in close proximity to the eyes or other sensitive areas.

Unit Per C/T		Unit Per Btl.	
Powder		Liquid	
CODE	Contents	CODE	Contents
55 01 80 81	15 kg 20 kg	55 01 82	25 kg

**Dish Washing Machine Rinse Additives**

Aditivo de Enjuague para Máquina Lavavajillas  
食器洗浄機用乾燥仕上げ剤  
洗碗碟机漂洗添加剂



A translucent brownish liquid made of sugar, ester, and glyceride, etc. and used as a rinse additive to dry machine washed dishes.

55 01 85	Dish washing machine rinse additive, 10 kg	Can
----------	---	-----

**Machine Warewashing Detergent**

Detergente para Máquina Lavavajillas  
食器用洗浄剤 机器器具清洗剂



A wide variety of detergents for cleaning tableware and kitchen utensils are available.

The most common detergents are listed below.

CODE	Item	Content	Purpose	Unit
For Conventional Dispensers				
55 02 01	Impact	1 kg × 25's per C/T	One-pass, volume washing with heavy soil loads in hard water. For tableware including plastic-ware.	C/T
55 02 03	Soilite	1 kg × 25's per C/T	For use in soft water (to 7 gpg) where coffee stains, milk solids and animal fats are a problem.	"
55 02 05	Acclaim	1 kg × 25's per C/T	For use in soft (or mechanically softened) to medium-hard water.	"

Tableware Presoak Detergent				
CODE	Item	Content	Purpose	Unit
55 02 11	Assure	1 kg × 10's per C/T	Presoak for stainless and silver flatware. Detarnishes silverware.	"

Final Rinse Additives				
CODE	Item	Content	Purpose	Unit
55 02 13	New Rinse-dry	4 ltr/Btl	For speed drying and eliminating spotting and streaking after machine washing. For automatic injection into rinse.	Btl.

Manual Washing Powder				
CODE	Item	Content	Purpose	Unit
55 02 15	Tetrox	20 kg Drum	For manually washing tableware, glassware, pots and pans.	Drm

(to be continued)

Specialty Product				
55 02 18	Lime-A-Way	10 kg Drum	Removal of lime film, iron stains and scale; for use on dish-machine interiors, stainless and aluminum surfaces hospital glassware, toilet bowls and urinals animal cages.	Drm
55 02 19	Dip-it	20 kg Drum	For cleaning plastic ware, china or metal surfaces, stained with coffee or food stains.	"
55 02 20	Grease-Cutter	4 ltr/Btl	Removes grease from ovens, stove hoods, grills, broilers, deep fat fryers.	Btl.

Name of Mfr.: Ecolab Co., Ltd.

**Toilet Soap**

Japón de Tocador 化粧石鹼 卫生皂

For washing face, body and hands.



CODE	Description	Size	Packaging	Unit
55 02 51	Private Brand	71 grm/pc.	200/Case	Pc.
55 02 52 53 48 49	Lux	3 oz/pc. 75 grm/pc. 90 grm/pc. 100 grm/pc.	72/Case 72/Case 2's/Pkt 3's/Pkt	Pc./C/T Pkt Pkt
55 02 56	Camay	85 grm/pc.	72/Case	Pc.

**Pumice Soap (Lava Soap)**

Japón Pómez 手洗い石鹼 洗手肥皂

Used to remove grease and oil from the hands. Useful for mechanics, painters and those doing work with difficult to remove greases or dirt. Supplied 144 bars in a case.

55 02 60	Soap, pumice, 95 grm	Pc.
----------	----------------------	-----

**Disinfectant & Antiseptic Hand Liquid**

Líquido Desinfectante y Antiséptico para Manos  
手用殺菌消毒剤 手用消毒防腐洗滌剂

A condensed liquid detergent with disinfectant effect especially for hands washing. Normally stored in wall-mounted dripping tank. A few drops will foam and make clean hands by scrubbing with water. Will eliminate extra times because of the unique pre-mixed components for washing and disinfecting.



CODE	Contents	CODE	Contents
55 02 62 63	500 grm 3 kg	55 02 64	5 kg

## Wall Mount Dispensers for Disinfectant & Antiseptic Hand Liquid

Refipientes Montados a la Pared/Líquido Desinfectante y Antiséptico para Manos

手用消毒防腐洗剤用墙壁式容器 手用殺菌消毒剤用壁付け容器

Wall mount type plastic container for storing disinfectant & antiseptic liquid in washroom or lavatory. Can be furnished with glue on the wall. Various colours are available for the purpose of sanitary management required for Ship Sanitary Certificate (SSC) issued in compliance to the WHO International Health Regulations.



CODE	Description	Colour
55 02 65	Wall mount container, plastic, for disinfectant & antiseptic liquid	-
55 02 95	Wall mount container, for sanitiser	Red
55 02 96	Wall mount container, for handwash	Light blue
55 02 97	Wall mount container, for shower gel	Dark blue
55 02 98	Wall mount container, for barrier/ skin protection cream (before work)	Yellow
55 02 99	Wall mount container, for skin moisturiser/ restoring cream (after work)	Green
55 03 00	Wall mount container, for heavy duty hand cleaner	Purple

## Rapid Hand Cleaner

Limpiaador Rápido para Manos

強力ハンドクリーナー 快干洗手液

British made antiseptic rapid hand cleaner, conforms to British P.A.S.16. Removes oil, grease, paint, tar, oil based inks, creosote, resins, waxes, and rubber compounds.

### Warning!

Do not use the cleaner in close proximity to the eyes or other sensitive areas.

55 02 66	Hand cleaner rapid 1 ltr	Tin
67	Hand cleaner rapid 1 ltr x 6 tins	C/T
68	Hand cleaner rapid 4.5 ltr	Tin
69	Dispenser for above 4.5 ltr tin	Set

## Waterless Hand Cleaner

Limpiaador sin Agua para Manos

ユニゾール "T" ハンドクリーナー 无水洗手液

Dissolves grease, paint, ink, grime, dirt, tar and difficult to clean substances. Smooth, gelatin, waterless hand cleaner for engineers.



55 02 71	Hand cleaner, waterless, "YUNISOL TL"	1 Ltr	Btl.
55 02 72		10 Ltr	Box

## Hand Cleaners Eco-friendly

Limpiamanos ecológicos エコハンドクリーナー 环保洗手液

Plant-based formula, non-toxic, non-flammable, non-carcinogenic, non-harmful to marine and aquatic life. Phosphate-free, pH neutral. Complies with all current and forthcoming legislation, including EC Detergent Regulation 648/2004 and REACH 1907/2006. Bottle made from 40% recycled plastic.



55 02 73	Hand cleaner, eco-friendly, 500 ml	Btl.
55 02 74	Refill for hand cleaner, eco-friendly, 5 ltr	Btl.



## Vaseline

(Soft Paraffin)

Vaselina ワセリン 凡士林

Moistens dry skin and protects it from chapping. Applied to the hands after working with paint, paint thinner, or any other substance which dries out the hands or causes chapping. Supplied in 500 gm jars.

55 02 76	Vaseline, 500 gm	Jar
----------	------------------	-----



## Barrier Cream

Crema de Protección バリアクリーム 护肤脂

Used for the same purpose as vaseline but this cream is applied before work and washed off afterwards.

55 02 78	Barrier cream 300 gm	Jar
----------	----------------------	-----



## Hand Cleaning Wipes

Secadores para Manos 強力手拭き紙 手用清洁纸

Tough extra large wipe combined with powerful liquid heavy duty hand cleanser, containing moisture to leave skin feeling conditioned after use. Can be used in and around the workshop or away from the workplace - no water required.



The wipes act quickly and effectively leaving no residue and a pleasant after smell on the skin.

### \* Red Box (for workshop wipes)

Suitable for removing oil, grease and grime. Liquid is a blend of cosmetic quality non-ionic and anionic cleaners, refined aliphatic dibasic esters, moisturisers, preservatives and water.

### \* Black Box (for paintshop wipes)

Suitable for removing synthetic, 2 pack and cellulose paints (base coats and lacquers), body fillers, adhesives and sealants, plus most other refinishing soiling.

### \* Tough Wipes (Anti-bacterial protection)

The textured surface acts like a scrub to remove ingrained grime, whilst the active ingredients lift off a wide variety of soiling easily. The smooth side locks in dirt and prevents re-transfer. Tough Wipes also include anti-pathogen agents to combat Weils Disease, common germs and viruses, as well as 'super-bugs'. Removes: grease, oil, silicone, paints, sealants, inks, adhesives.



Unit Per Can/Pkt.

CODE	Name	For	No. of Sht	Weight kg
55 02 81 82	Red box Black box	Workshop wipes Paintshop wipes	150/Can 150/Can	1.5 1.5
55 02 83 84	Tough wipe Tough wipe 100	Anti-bacterial protection	30/Pkt 100/Pkt	0.35 1.2

Name of Mfr.: "Red Box" and "Black Box": SC Johnson  
"Tough Wipes": CRC Industries

### Hand Cleanser

#### Loctite SF7850 / SF7855 (Loctite Orange)

Limpia de Mano Loctite Naranja  
ハンドクリーナー 洗手用液剤

Product No.35228

Thicker consistency to scoop straight from container. Biodegradable, waterless, and petroleum-solvent-free; cleans with fresh-scented, natural citrus power. Contains aloe, lanolin, jojoba, and other premium skin conditioners.



SF7850 – General purpose cleaner, removes ground-in dirt, grease grime and oil.

SF7855 – For removal of ink, paint, resin or adhesives.

55 15 24	Hand Cleanser SF7850, 400 ml	Btl.
25	Hand Cleanser SF7850, 3 ltr	Btl.
26	Hand Cleanser SF7855, 400 ml	Btl.

### Hand Cleaner "Scrubs"

Limpia de Mano "Scrubs"  
ハンドクリーナー "スクラブ"  
洗手用液剤 (SCRUBS)

Revolutionary heavy-duty hand cleaner towel that loosens, dissolves and absorbs dirt, greases, oil paint adhesives, tar, silicone and more from hands.



55 02 87	SCRUBS 72, 72 towels/bucket	Bkt.
88	SCRUBS 36, 36 towels/bucket	"
89	SCRUBS Multi, 24 towels/pack	Pack

Name of Mfr.: ITW Devcon

### Hand Soap in Pump Dispenser

Jabón para Manos en Dispensador  
ポンプ入り薬用石鹼 泡沫洗手乳

A medicated soap in pump dispenser. Simply press the bottle head with one hand, and rub over hands or face after received soap spouted from the nozzle. Available two types of soap spouted, jell or foam.



Unit Per Btl.

Jell		Foam	
CODE	Q'ty	CODE	Q'ty
55 02 91 92	250 ml Refill (250 ml)	55 02 93 94	250 ml Refill (250 ml)
55 02 38 39	500 ml Refill (500 ml)	55 02 40 41	500 ml Refill (500 ml)

### Oven Cleaners

Rociador, Limpia Hornos オーブンクリーナー 烤炉清洁剂

Aerosol type cleaner which cleans ovens fast without scouring and scrubbing. Penetrates baked on grease and grime and leaves a clean surface. Furnished in 226 gm cans.



55 03 01	Cleaner oven 300 ml	Tin
----------	---------------------	-----

### Toilet Bowl Cleaners

#### Eco-friendly

Limpiaores de inodoros, Ecológico  
エコトイレクリーナー 马桶清洁剂

Plant-based formula, non-toxic, non-flammable, non-carcinogenic, non-harmful to marine and aquatic life. Complies with all current and forthcoming legislation, including EC Detergent Regulation 648/2004 and REACH 1907/2006. Bottle made from 40% recycled plastic.



55 03 04	Toilet bowl cleaner, eco-friendly, 1 ltr	Btl.
55 03 05	Refill for toilet bowl cleaner, eco-friendly, 5ltr	Btl.



### Toilet Bowl Cleaner

Limpia WC トイレットクリンザー 厕所用去污粉

Removes stains where toilet germs lurk. Keeps toilets glistening clean without scrubbing. Works chemically and cleans even hidden traps. Use at least twice a week to remove film stains, incrustations and toilet odors.



Duck Neck

Unit Per Btl.		
CODE	Description	Content
55 03 07	Harpic	500 grm
55 03 10	Duck neck	750 ml

## Aerosol Glass Cleaner

Crema de Protección ガラスクリーナー 玻璃清洁剂

A general purpose aerosol cleaner for glass, mirrors, car windows, plastic products, enamelware, earthenware, tile, marble, furniture and automobiles. Spray and wipe clean with a cloth to get a lustered surface.



### Caution!

Do not use near foodstuffs or on tableware. Harmful if ingested.

Unit Per Tin

CODE	Contents	CODE	Contents
55 03 12	280 ml	55 03 11	310 ml
14	300 ml	13	480 ml

## Window Cleaners

### Eco-friendly

Limpia cristales, Ecológico 窓用エコクリーナー 窗户清洁剂 环保

Superior cleaning power window cleaner suitable for all types of surfaces. Tackles and removes dirt without any trace, leaving a perfect shine. Fast evaporation and residue-free drying. Allergen free, pleasant fresh fragrance. Cruelty free. Dermatologically tested. Recycled and recyclable packaging. No dangers, no transport restrictions.



55 03 15	Window cleaner eco-friendly, 750 ml	Btl.
55 03 16	Window cleaner eco-friendly, 5 ltr	Btl.



## Deodorizers

Desodorantes 脱臭剂 除臭剂

For absorbing disagreeable odors in the refrigerator or other places that require deodorizing. Made from quality activator carbon. Furnished in small and large sizes.



55 03 21	Deodorizer, regular	60 grm	Pc.
22	"	120 grm	"



## Air Freshener

Ambientador エアーキーナー 空气清醒剂

One spray makes a room fresh.

Unit Per Tin

CODE	Description	Size	Packaging
55 03 31	Air Freshener	220 ml tin	15/case
32		420 "	12/case



Concentrate air freshener with long duration. Its natural perfume provides a cool, clean and nice environment. It deodorizes and perfumes all kind of environments.



55 03 33	Air freshener, 5 ltr	Btl.
----------	----------------------	------

## Liquid Air Freshener

### \* For Linen and Cloths

Designed for neutralizing and deodorizing the unpleasant odors in clothing and linens. Made of blended organic components.



### \* For Shoes

Specially designed for deodorizing against unpleasant odors generated from the inside of the shoes.

### \* For Toilet

Specially designed for removing and preventing from ammonia odors generated in toilet.

55 03 37	Liquid Air freshener for Linen & Cloths, 400 ml	Btl.
38	Liquid Air freshener for Shoes, 400 ml	Btl.
39	Liquid Air freshener for Toilet, 400 ml	Btl.

## Liquid Air Fresheners

### Eco-friendly

Ambientadores líquidos , Ecológico

エコ液体消臭剤 液体空气清新剂 环保型



Plant-based formula, non-toxic, non-flammable, non-carcinogenic, non-harmful to marine and aquatic life. Complies with all current and forthcoming legislation, including EC Detergent Regulation 648/2004 and REACH 1907/2006.

Bottle made from 30% recycled plastic.

55 03 45	Liquid air freshener, eco-friendly, 750 ml	Btl.
55 03 46	Refill for liquid air freshener, eco-friendly, 5 ltr	Btl.



## Deodorizing Coagulant Powder

Polvo coagulante desodorante

脱臭・凝固剤 除臭凝固剂



Sprinkle this powder and cover the vomits or excrement. Quickly absorbs, congeals, and deodorizes vomits.

55 03 34	Deodorizing coagulant powder 10 kg	Pkt.
----------	------------------------------------	------

## Disinfecting Deodorant

Desodorante desinfectante

除菌消臭剤 杀菌除臭剂



For disinfecting the bacteria and degrading disagreeable odors in the room, locker, refrigerator or any places. Tear open the outer package, remove inner package and place or hang in area to be deodorized.

Effective space for 1 unit is aprox. 20m<sup>2</sup>., lasting 2-3 month. Available from 50 pkt/ Case.

55 03 35	Disinfecting deodorant, 50'pkt	C/S
----------	--------------------------------	-----

## Toilet Odor Balls

Bolas Quitaolores オーダー球 厕所香气球

For removing disagreeable odors in toilets. Just put into the urine pot. Supplied 60 balls per carton.



55 03 36	Toilet odor ball	Pc.
----------	------------------	-----

## Drain Pipe Cleaner

Desatascador de Tuberías バイブクリーナー 排水管除垢剂

A plumbing detergent designed to dissolve clogs in pipes. Dissolves everything except glass or metal without damaging the piping.



### Caution!

Harmful. Do not use with bare hands or expose to the skin. Do not use on dishes or aluminium.

Unit Per Blt.			
CODE	Size	CODE	Size
55 03 40 41	250 grm 500 grm	55 03 42 43	1 kg 5 kg

## Liquid Metal Polish

Limpiametales 液体金属磨 液体金属抛光剂

For polishing almost all metals, such as brass, copper, nickel, chrome, stainless steel, aluminium and even for machinery and golf clubs.

55 03 51 52	Metal polish, liquid, "	300 grm 360 grm	Tin "
----------------	----------------------------	--------------------	----------



## Stainless Steel Cleaner and Polish

Limpiametales para Acero-inoxidable

ステンレスクリーナー&ボリッシュ

不锈钢除垢剂及抛光剂

Cleans and polishes in just one operation. Resists finger-printing and masks surface blemishes on stainless steel, chrome, architectural aluminium and laminated plastic. Contains harmless food grade oil petroleum distillates.

55 03 55	Cleaner & polish, spray stainless steel 600 ml	Tin
----------	--	-----



## Paste Metal Polish

Pasta Limpiametales 金属磨ベースト 浆糊金属抛光剂

Same as liquid metal polish but for precision machine or shaft grinding. Furnished in 250 grm tins.



55 03 58	Metal polish, paste, 250 grm	Tin
----------	------------------------------	-----

## Glass & Stainless Steel Cleaners

### Eco-friendly

Limpia cristales y acero inoxidable, Ecológico  
エコガラス & ステンレスクリーナー  
玻璃和不锈钢清洁剂 环保型



Plant-based formula, biodegradable, ammonia-free, non-toxic, non-flammable, non-carcinogenic, non-harmful to marine and aquatic life. Also suitable for use on plastics, chrome, ceramics and laminates. Complies with all current and forthcoming legislation, including EC Detergent Regulation 648/2004 and REACH 1907/2006. Bottle made from 40% recycled plastic.

55 03 59	Glass & stainless steel cleaner, eco-friendly, 750 ml	Btl.
55 03 60	Refill for glass & stainless steel cleaner, 5 ltr	Btl.

## Liquid Furniture Polish

Liquidpo Anrillantaadör para Muebles

液体家具磨 液体家具抛光剂



This liquid polish can clean and keep furniture, wood corridors, linoleum tile, porcelain, stonework, leather, and metal in good condition. Mix with water or apply two or three drops to wet cloth and clean. Wipe surface with dry cloth after cleaning.

55 03 61 62 63 64	Polish, liquid, furniture "	200 cc 400 cc 1.13 ltr 4.5 ltr	Btl.
----------------------------	--------------------------------	---	------

## Spray Furniture Polish

Rociador Limpiamuebles スプレー家具磨 喷射家具抛光剂

For polishing furniture and keeping a good luster. Instant aerosol spray can clean tables, sideboards or any other furniture made of wood.



55 03 68 69	Furniture polish spray "	250 grm 420 grm	Tin "
----------------	-----------------------------	--------------------	----------

## Plain Wood Polish Liquid

Liquidpo para Pulir Madera

白木用光沢剤 普通木头抛光液



For polishing unvarnished or unpainted wood surfaces. Maintains the natural wood finish and protects against dust, scratches, etc. Furnished in liquid or paste types.

Unit Per Tin			
CODE	Size	CODE	Size
Liquid		Paste	
55 03 75 74 76 77 78	500 cc tin 700 cc tin 1 ltr tin 2 ltr tin 4 ltr tin	55 03 80 81	260 grm tin 500 grm tin

## Varnished Floor Polish Liquid

Barniz para Suelos ニス塗り木床用光沢剤 涂漆地板抛光液

For polishing varnished wood floors. Protects from dust and scratching.

Unit Per Tin			
CODE	Size	CODE	Size
55 03 84 85	500 cc tin 1 ltr tin	55 03 86 87	2 ltr tin 4 ltr tin

## Floor Cleaners

### Eco-friendly

Limpiaadores de suelos , Ecológico

床用エコクリーナー 地板清洁剂 环保

Powerful cleaners suitable for use on any hard surface. These cleaners are specially formulated for use on floors, although they are also suitable for other surfaces. Its natural ingredients provide fast and effective cleaning. Allergen-free fragrances. Cruelty free. Dermatologically tested. Recycled and recyclable packaging. No dangers, no transport restrictions.

55 03 88	Floor cleaner eco-friendly, 5 ltr	Btl.	
----------	-----------------------------------	------	---



## Tile Emulsion Polish

Emulsion Limpiaadora Azulejos

化学タイル用水性ワックス 瓷砖乳液抛光剂

For cleaning and polishing chemical floor tiles. Will not leave behind a slippery surface after waxing.

Unit Per Tin			
CODE	Size	CODE	Size
55 03 90 91	500 cc tin 1 ltr tin	55 03 92 93	2 ltr tin 4 ltr tin

## Carpet Shampoo & Cleaner

Champu y Limpiaador de Alfombras

カーペットクリーナー 地毯洗涤液及除垢剂

Carpet shampoo and cleaner remove dirt and restore a carpet to its original texture. No need for hard scrubbing because the dirt is lifted to the surface automatically where it can be brushed or vacuumed clean.

55 03 96 97 98	Carpet shampoo, spray, 480 cc Carpet cleaner, liquid, 4 ltr Carpet cleaner, liquid, 18 ltr	Tin " "	
----------------------	--	---------------	--

## Floor Maintenance Products

Products de Mantenimiento de Suelos

フロアメインテナنس製品 地板保养工具

Liquid wax for use in floor cleaning and maintenance. When ordering, please specify the name and size of the product you require.



## Summary List

CODE	Name	Size	Coverage per 18 ltr	Alternative in U.S.A.
------	------	------	---------------------	-----------------------

### Floor Stripper (床用剥離剤)

55 05 02	New Super All-go	18 ltr	450-900 m <sup>2</sup>	Freedom
55 05 03	Power Go	18 ltr	450-900 m <sup>2</sup>	Pro Strip
04	New Powerful Bika	18 ltr	-	Bravo Heavy Duty Stripper
05	Get Off	18 ltr	450-900 m <sup>2</sup>	Bravo

### Floor Cleaner (表面洗净剂)

55 05 07	Forward (Non phosphorus)	18 ltr		Go Forward
08	Big Bare	18 ltr		No Comparable
10	Forward Non Rinse	18 ltr		Forward DC
12	Neutra Fresh	18 ltr		Stride

### Wood Floor Maintenance (木床管理製品)

55 05 18	Sted Fast	18 ltr	600-1,200 m <sup>2</sup>	Traffic Wax Paste
19	Gymace	18 ltr	1,100 m <sup>2</sup>	No Comparable

### Synthetic Chemical Floor Maintenance (化学床管理製品) Self Shining Type Synthetic Resin Wax (樹脂仕上げ剤)

55 05 32	Stardom	18 ltr	1,200 m <sup>2</sup>	Complete
33	Complete S	5 gal	1,200 m <sup>2</sup>	Complete
36	Super Complete	18 ltr	1,200 m <sup>2</sup>	Complete
39	John Star	18 ltr	1,500 m <sup>2</sup>	Vectra
42	Impress Coat	18 ltr	1,500 m <sup>2</sup>	Vectra
45	Non-buff	18 ltr	1,500 m <sup>2</sup>	No Comparable
46	Neutra Coat	18 ltr	1,200 m <sup>2</sup>	ZF 175

### Hi-solid Synthetic Resin Finish (高濃度樹脂仕上げ剤)

55 05 48	Jsafer	18 ltr	1,200 m <sup>2</sup>	Signature
49	Pro Stage	18 ltr	1,200 m <sup>2</sup>	Premia
50	Fast Step	18 ltr	1,200 m <sup>2</sup>	Show Place
51	Grandprix	18 ltr	1,200 m <sup>2</sup>	Show Place
52	Centurion	18 ltr	1,200 m <sup>2</sup>	Show Place

### Buffable Type Water Emulsion Wax (水性ワックス)

55 05 56	T/G	18 ltr	1,200 m <sup>2</sup>	No Comparable
----------	-----	--------	----------------------	---------------

### Sealer (シーラー)

55 05 64	Basic Coat	18 ltr	1,200 m <sup>2</sup>	Technique
66	Concrete Sealer	18 ltr	400-1,000 m <sup>2</sup>	JX-4000

## Floor Stripper

Unit Per Can				
CODE	Name	Size	Remark	
55 05 02	New Super All-go	18 ltr	Powerful fast stripper	
03	Power Go	18 ltr	Ultra powerful fast stripper	
04	New Powerful Bika	18 ltr	Wax stripper	
05	Get Off	18 ltr	Fast stripper	

**Floor Cleaner**

CODE	Name	Size	Remark	Unit Per Can
55 05 07	Forward (Non phosphorus)	18 ltr	General purpose cleaner	
08	Big Bare	18 ltr	General purpose cleaner	
10	Forward Non Rinse	18 ltr	General purpose disinfectant cleaner	
12	Neutra Fresh	18 ltr	General purpose neutral cleaner	

**Wood Floor Maintenance**

CODE	Name	Size	Remark	Unit Per Can
55 05 18	Sted Fast	18 ltr	Polishing wax for wood floors	
19	Gymace	18 ltr	Finish for wood floors	

**Synthetic Chemical Floor Maintenance**

Mantenimiento para Suelos Químico Sintético  
化学床メイントナンス製品  
人造地板保养化学品

**Synthetic Resin Wax  
Self Shining Type**

Cera de Resina Sintética 樹脂ワックス 地板蜡

CODE	Name	Size	Remark	Unit Per Can
55 05 32	Stardom	18 ltr	High gloss floor finish	
33	Complete S	5 gal	Toughest long lasting floor finish wax	
36	Super Complete	18 ltr	Metal-interlock floor finish	
39	John Star	18 ltr	High gloss floor finish	
42	Impress Coat	18 ltr	High gloss floor finish	
45	Non-buff	18 ltr	Self shining, non buff, non-slip	
46	Neutra Coat	18 ltr	Zinc-free finish	

**Hi-solid Synthetic Resin Finish**

"Finalizador" de Resina Alta Sintética  
高濃度樹脂仕上げ剤 地板抛光剂

CODE	Name	Size	Remark	Unit Per Can
55 05 48	Jsaver	18 ltr	High performance UHS finish	
49	Pro Stage	18 ltr	Ultra high-speed floor finish	
50	Fast Step	18 ltr	High performance floor finish	
51	Grandprix	18 ltr	High performance floor finish	
52	Centurion	18 ltr	High performance floor finish	

**Water Emulsion Wax  
Buffable Type**

Cera de Emulsión Acuosa/Tipo Puliente  
水性ワックス 水性乳状蜡

CODE	Name	Size	Remark	Unit Per Can
55 05 56	T/G	18 ltr	Self polishing floor finish	

**Sealer**

Sellador シーラー 封闭机

CODE	Name	Size	Remark	Unit Per Can
55 05 64	Basic Coat	18 ltr	Long lasting sealer/Base coat	
66	Concrete Sealer	18 ltr	Concrete sealer/Finish	

**Pine Scent Disinfectant Solution**

Solución Desinfectante Fragancia de Pino

パインオイル消毒液 松香消毒液

Contains ingredients such as soap, pine oil, and Isopropyl Alcohol. This solution kills germs such as the influenza virus and gerous staph and strep on surfaces preventing the spread of germs in kitchens and bathrooms.

CODE	Contents per	Unit
55 06 01	500 ml	Btl.
02	4 ltr	Tin
03	18 ltr	Can

**Insecticide Fluid**

Insecticida Liquido スイチオソ殺虫剤 杀虫液

Excellent Insecticide with quick & lasting effects. Highly effective in disabling flies, maggots, mosquitoes, mosquito larvae, fleas, bedbugs, cockroaches & house ticks.

55 06 06	Insecticide fluid 4 ltr	Can
07	" 18 ltr	Tin

**Insecticide Residual**

Insecticida residual 残留殺虫剤 杀虫剂残留

The product fights effectively the crawling insects. Residual effect is 6 to 12 months. Solvent base formulation.



55 06 10	Insecticide residual spray, 400ml	Tin
55 06 08	Insecticide residual liquid, 5 ltr	Btl.

**Disinfectant Liquid "Cresol"**

Líquido Desinfectante "Cresol"

クレゾール石鹼液 "Cresol" 消毒液

Used for general disinfection, has phenolic order.

55 06 11	Disinfectant liquid cresol 500 cc	Btl.
12	" 18 ltr	Tin

**Disinfectant Liquid "Phenol"**

(Carbolic Acid)

Líquido Desinfectante "Fenol" (Ácido Carbólico)

液状フェノール "Pheno" 消毒液

Antiseptic, disinfectant and germicide for external use only. Never use on wounds and ulcerations. Also used for general disinfection, and antiseptic purpose.

**Caution!**

Toxic by ingestion, inhalation and skin absorption.

55 06 16	Disinfectant liquid phenol 500 ml	Btl.
17	" 18 ltr	Tin

## Acetic/Citric Acid Disinfectant Liquid

Líquido desinfectante ácido acético/cítrico

酢酸 / クエン酸消毒液 醋酸 / 柠檬酸消毒液

Contains minimum 60% of acetic or citric acid liquid. This solution kills germs such as the influenza virus and staph and strep on surfaces preventing the spread of germs in kitchens and bathrooms.

55 06 18	Disinfectant liquid, acetic/citric acid	Ltr
----------	---	-----

## Plastic Pump Spray Bottles

Botellas pulverizadoras de plástico

プラスティック製スプレーボトル 塑料泵式喷雾瓶

General purpose pump spray bottles for spreading any liquids such as cleaning liquid or disinfectant liquid etc.



55 06 19	Pump spray bottles, plastic 500 ml	Btl.
----------	------------------------------------	------

## Cockroach Killers

Mata-cucarachas, Aerosol ゴキブリスプレー 灭蟑螂药



Aerosol cockroach killer with a rapid disabling effect. For use indoors. Has a pleasant fragrance.

CODE	Contents	Unit
55 06 21	300 ml	Tin
22	600 ml	Tin

## Insect Killers

Insecticida, Aerosol 殺虫剤 杀虫剂



Aerosol insect killer which will eliminate insects and prevent them from entering the accommodations.

CODE	Contents	Unit
55 06 24	300 ml	Tin
25	600 ml	Tin

## Insecticide Powder

Insecticida en Polvo 殺虫剤 杀虫粉

Effective for the control of flies, fly larvae, mosquitoes, mosquito larvae, cockroaches, fleas, bedbugs and house-ticks.

Application is made by dusting over the places where harmful insects are liable to breed.

55 06 27	Insecticide powder, 500 grm	Btl.
----------	-----------------------------	------

## Rat Poison

Veneno para Ratones ラットライス 鼠药

Improved rat poison that kills rats when they feed upon it. Supplied in 125 grm packets with 12 packets in a case.

55 06 30	Rat poison, 125 grm	Pkt.
----------	---------------------	------

## Self-Heating Cockroach Fumigator

Fumigador Auto-calentamiento para Cucaracha

ゴキブリ退治器 自动加热蟑螂熏蒸剂

Begins working when the lid is removed to fumigate insects effectively.



### Features:

1. Heats up when in contact with air and disperses an effective vapor.
2. Kills all exposed insects: cockroaches, house ticks, bedbugs, fleas, flies, mosquitoes, gnats, etc.
3. Flashing effect - infected insects will die after being flushed out from where they hide and breed.
4. Easy to use - just remove the cap.
5. Safe pyrethrin chemical used.
6. Applications: cabin, galley, store rooms, etc.

### Instructions for use:

1. Open cabinets, doors and drawers in the area to be treated.
2. Close doors and windows and shut off all fans and air conditioning.
3. Place the canister in the center of the room.
4. Exit after opening the lid and keep the area closed for 1 - 3 hours.

CODE	Main Ingredient Content	Unit	Capacity	Unit Per Pc.
55 06 35	20 grm	Pc.	10 - 13 m <sup>2</sup>	
36	40 grm	"	20 - 26 m <sup>2</sup>	
37	60 grm	"	30 - 40 m <sup>2</sup>	
38	80 grm	"	40 - 50 m <sup>2</sup>	

## Disposable Cockroach Traps

Trampas Desechables para Cucaracha

ゴキブリホイホイ 一次性蟑螂夹



Easiest, cleanest way ever to kill roaches without poisons or chemicals harmful to humans and pets.

The cockroach trap works in a completely different way. It consists of a mini house with special insect glue and special food bait that lures roaches inside the trap where they are caught and die.

55 06 40	Cockroach trap with special food bait 5's	Pkt.
----------	---	------

## Sanitary Items for Quarantine Inspection

Sanitary Items for Quarantine Inspection

船舶衛生検査品目 船舶卫生检查用品

The listed below are standard items required to maintain ship in a sanitary condition by local quarantine office.

Items	IMPA Code	Remarks
<b>* Rat Guards</b>		
Rat Guard	23 23 61 - 64	At least the number of mooring ropes and 2 spares.
<b>* Rat Traps</b>		
Rat Trap	17 43 52 - 53	At least 5 traps.
<b>* Rat Poisons</b>		
Rat Poison	55 06 30	At least 500 grm of rat poisons.
<b>* Insecticides</b>		
Insecticide Fluid Sprayer or Insect Killer	55 06 06 55 06 60 - 61 55 06 24 - 25	At least 1 to 2 ltr emulsion insecticide, or At least 1 to 2 dozens aerosol (300 ml) insecticide.
<b>* Disinfectant for Portable Water</b>		
Sodium Hypochlorite Solution	55 06 71	At least 5 ltrs of disinfectants.
<b>General Disinfectants</b>		
Disinfectant Liquid "Phenol" and Disinfectant Liquid "Cresol"	55 06 16 55 06 11	500 grm x 3 - 5 btls

## Smoke Insecticides

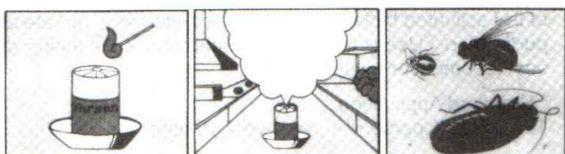
Insecticidas de Humo バルサン 烟雾杀虫剂

An insecticidal smoke generator containing Permethrin as the active ingredient. Highly effective for the control of cockroaches, house ticks, bedbugs, fleas, and larvae of fly and mosquitoes in buildings, vessel-holds, warehouses, ships, restaurants, hospitals and factories. When fumigated, insecticidal smoke is emitted penetrating into every corner and hard-to-reach place to eradicate the insects.



### Features:

- Highly effective both in knockdowns and long-lasting effects.
- Flushes insects from hiding places and kills them.
- Simple to use, ignite the wick of the can with a match.
- Not harmful to people or animals.
- Does not corrode metals.



Standard amounts to be used for Covering Space

Size of Tin Insects to be exterminated	No.3 120 grm	No.2 240 grm	No.1 480 grm
Cockroaches, house ticks, bedbugs, etc.	100-134M <sup>3</sup>	200-267M <sup>3</sup>	400-533M <sup>3</sup>
Larvae of fly and mosquito	200-400M <sup>3</sup>	400-800M <sup>3</sup>	800-1,600M <sup>3</sup>

CODE	Nominal Size of Tin	Actual Size	Packaging	Unit
55 06 51	No. 3	120 grm tin	40/Case	Tin
52	No. 2	240 grm tin	12/Case	"
53	No. 1	480 grm tin	12/Case	"

## Handy Sprayers

Aerosoles Tipo Manual 噴霧器 喷雾器



Tin made handy sprayer for insecticides, etc.

55 06 60	Sprayer, handy	Pc.
----------	----------------	-----

## Shoulder Sprayers

Mochila Desinfección 肩掛け噴霧器 背式喷雾器



For spraying insecticide or any liquid by utilizing a hand pump. Can be carried on the shoulder for easy use anywhere.

55 06 61	Sprayer shoulder type	4 ltr	Set
62	"	10 ltr	"
63	"	11 ltr	"

## Drinking Water Disinfectant

Hadex

Desinfectante para agua potable

飲料水用消毒剤 饮用水消毒剂

A safe, effective and easily applied product, especially intended for disinfecting drinking water in tanks and pipelines. Also keeps the drinking water in good condition.

A liquid product which mixes quickly and easily with water for immediate use. Hadex starts disinfecting immediately, and the water is ready for consumption after a short period of only 30 minutes.

Hadex treatment is based on the tried and tested use of chlorine in the preparation and final treatment of drinking water with long shelf life at least one year under normal conditions (Temperature = 25 deg. C).

Hadex has been tested and approved by a number of maritime authorities, such as ; the Dutch Ministry of Health (CTB registration No.9574 N), the Dutch Directorate General for Shipping and Maritime Affairs – Shipping Inspection Division NSI (NL), DOT (UK), NMD (Norway), DNV and NATO.

There are three standard dosages for drinking water treatment in most situations.

- Suitable for standard Hadex proportional dosing installations for single flow through drinking water systems.
- Automatic dosing installations for drinking circulation water systems.
- 30ml, dropper bottles for the individual users such as travelers.

Available in 1, 2.5, 10 and 25 litre polythene containers. Non inflammable or explosive.

		Unit Per Can	
CODE	Contents	CODE	Contents
55 06 65 66	1 ltr 2.5 ltr	55 06 67 68	10 ltr 25 ltr

Name of Mfr.: Hatenboer - Water

## Fruit and Vegetable Extra-Shelf-Life Cleaners "ORGACURE®"

Limpia para prolongar la frescura de frutas y verduras

生鮮食保存期間延長用抗菌クリーナー

生鲜食品保存时间延长用抗菌粉末

Antibacterial and antibrowning washing powder to keep whole and fresh-cut fruits, vegetables and salads safe, fresh and with extra shelf-life (All-in-one). No aftertaste, no residues, no waste. Sustainable, 100% food-grade product. Pour 1 teaspoon per liter tap water, dip fruits and vegetables for 60 sec. in solution, take off, drain well and serve directly or store cold and consume within 7 days. Safe to dispose directly into the sewer. Approved by Agri-Food & Veterinary Authority (AVA) Singapore.



CODE	Contents	Unit
55 06 69	Orgacure powder, 500 grm x 3 pouch	C/T
70	Orgacure powder, 1 kg x 5 pouch	C/T

Name of Mfr.: Orgacure B.V.

## Sodium Hypochlorite Solution

Solución de Hipoclorito de Sodio

飲料水用消毒剤 磁氯酸鈉溶液

6 % Sodium Hypochlorite (NaClO) solution. Disinfectant for use in drinking water. Use one drop of solution per 10 ltrs of drinking water, 600 ml of solution per 36 tons of drinking water.



55 06 71 72	Sodium hypochlorite solution, " "	600 cc 18 ltr	Btl. Can
----------------	--------------------------------------	------------------	-------------

## Attention!

The industrial chemicals and cleaning agents in this section have been provided with information about their chemical properties and any hazards which may be involved with their use. Discretion and care must always be taken in reading the instructions for the proper storage and use of chemical products. To avoid careless injury, always wear protective clothing, gloves, face shield, or respirator when indicated so in the chemicals instructions.



## Sewage Sanitary Disinfectant

(Chlorinated Isocyanurate Tablet)

Desinfectante para Aguas Residuales De Sanitario

污水消毒錠剂 污水卫生消毒剂

The Chlorinated Isocyanurate has excellent characteristics and advantages compared with conventional inorganic chlorine compounds.

It is a tablet formulated from chlorinated isocyanuric acid with good chemical stability for algae control, effluent treatment, and disinfection of septic tanks. Available Chlorine is 65%, and packed in special made strong carton drums.



CODE	Weight	Contents	Unit
55 06 76	10 kg	15 grm/tablet x 20 tab/pkt x 33 pkt	C/T
77	15 kg	15 grm/tablet x 1,000 tab	"

## IMPORTANT!

### Direction for Storage and Handling

Chlorinated Isocyanurate (C.I.) tablets are strong oxidizing agents, which release chlorine on contact with water. Care should be exercised, therefore, in their storage; all C.I. tablets should be stored under cool dry conditions. They should be stored away from water, moisture, ammonium compounds, amines, oil, grease, any easily oxidizable matter, strong acids, alkalis, and sources of heat. No sweepings or waste should be put into bins, as accidental contamination with easily oxidizable matter could cause ignition and fire.

## Decomposers for Ship Digestion Tank Activated Microbial Preparation

1) For the maintenance of sewage devices, the regular application of decomposer stabilizes effluent qualities and prevents the treatment equipment from malfunctioning.

\* Standard Application

60 g / 1 person / 1 day, every 10 days

2) For seeding at the initial start of new plants or as treatment measures after drawing off sludge. Addition to the decomposer will shorten the lag period of decomposition of the activated biological masses and increase the rate of purification. Use of micro-organisms: at the beginning of use decomposer must be added.

\* Standard Application

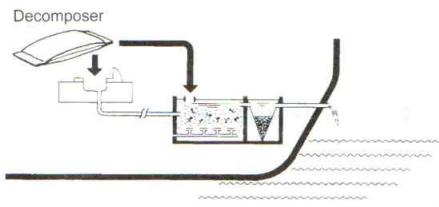
15 – 25 g / 1 person / 1 day, every 10 days

3) Early recovery from accidents (foul smell, bad effluent). In the case where the device is deteriorated due to a change in the quality of flushing water or the tank environment, decomposer assures early recovery of performance and stable operation of the device.

\* Standard Application

15 – 50 g / 1 person / 1 day, every 5 – 10 days

Apply the appropriate amount of decomposer into a toilet bowl and flush 2 – 3 times.



**55 06 80** Activated microbial preparation decomposes 10 kg C/T

## Microzyme Sewage Liquid

Microzyme Líquido para Aguas Residuales

污水处理用微生物分解促進液 微酶污水处理液

A concentrated blend of liquid living aerobic and anaerobic bacteria especially selected for the unique ability to produce active enzymes, which are required for the degradation of sanitation wastes. It is naturally occurring and is not genetically engineered. Therefore, it is safe for usage under all types of applications. With its unique ability to formulate bacteria strains, which produce large amounts of amylase (starch), protease (protein), cellulase (cellulose), and lipase (grease), if used on a routine basis, it will supplement the bacteria normally present and thereby degrade waste material more rapidly and with greater efficiency.

<b>55 06 81</b>	Microzyme Sewage Liquid, 10 ltr	Can	
<b>55 06 82</b>	Microzyme Sewage Liquid, 25 ltr	Can	

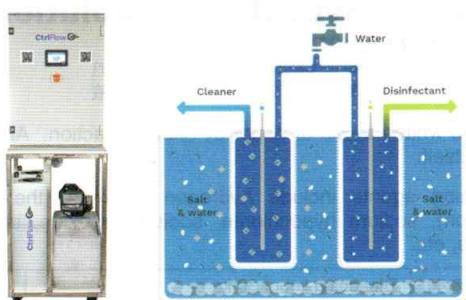
## ECA Water Generating Device

Dispositivo Generador de Agua ECA

ECA ウォーター生成装置 ECA 制水装置

ECA (Electro-Chemically Activated) Water is created by electrolysis using ordinary water and salt to create an effective sustainable cleaning and sanitizing solution. The process recombines the sodium and chlorine in salt (NaCl) with the hydrogen and oxygen in water ( $H_2O$ ) to produce hypochlorous acid (HOCl) and sodium hydroxide (NaOH). This creates a powerful liquid cleaner and disinfectant that can be used on almost all surfaces. ECA Water is completely hypoallergenic, non-toxic and environmentally friendly while being safer, and more effective than standard bleach. To reduce waste, the system produces ECA water on-demand, helping to not only reduce chemical usage but also reduce plastics, costs, logistics, transport contributing to a lower carbon footprint.

ECA Water systems can be supplied with stand or without stand, and require power and a fresh water supply, so please specify the type when ordering.



Specification		
Model	Flow 40 Device (no stand)	Flow 40 Plus (with stand)
Power	90 to 264 VAC, 1,700 W(max)	
Dimension (mm)	H:750 × W:540 × D:300	H:1,630 × W:545 × D:535
Weight (kg)	35	75

**55 06 85** ECA water generating device, complete Set

Name of Mfr.: Tower Supplies

## Drinking Distilled Water Additives

Aditivo para Agua Destilada para Beber

蒸留水飲用添加剤 饮用蒸馏水添加剂

A distilled water additive for drinking water. By applying this additive, well balanced essentials to maintain human health are composed and distilled water is turned into uninjurious water.

1. Add this additive at the ratio of 100 g (100 ppm) to 1 ton of drinking water.
2. Inject a previously dissolved 2 - 3% solution into the drinking water tank.

### Example:

In case of drinking water of 5 tons. Take 20 ltr of drinking water in a dissolving container (Bucket or any other similar containers) of exclusive use and dissolve 500 g of additives in it, and then feed it into the drinking water tank.

### Physical Properties

Appearance	Water color and granular product
pH (1% solution)	7.0 ± 0.5
Special gravity (1% solution)	1.008 ± 0.05
<b>55 06 84</b>	Distilled water additive for drinking water 10 kg

## Distilled Water

Agua Destilada 蒸留水 蒸馏水

Pure, distilled water for refilling batteries or accumulators. Supplied in 500 cc or 20 ltr plastic containers.

<b>55 06 88</b>	Distilled water, 500 cc	Btl
89	" 20 ltr	"

## Water Purifiers

Depuradoras de agua 净水器 净水器

All-in-one component system to install easily in mess room, kitchen, bridge or engine room that eliminates contaminants or impurities from water by filters and ensure it is suitable for drinking and cooking. It helps to reduce plastic drinking water bottles to contributes to SDGs. Mainly two types are available, tap type which will purify the water within the system and connect directly to the water tap, or the independent server type. Filters need to be replaced in certain period to maintain the quality of water. There are several manufacturers providing this system, so please specify the type, manufacturer, model when ordering.



<b>55 06 90</b>	Tap type with filter, complete	Set
<b>55 06 91</b>	Replacement filter for tap type	Set
<b>55 06 92</b>	Server type with filter, complete	Set
<b>55 06 93</b>	Replacement filter for saver type	Set

## Acetone, CH<sub>3</sub>COCH<sub>3</sub> (Dimethylketone)

Acetona アセトン 丙酮

A colourless, volatile liquid with a sweetish odor. This chemical is flammable and presents a dangerous fire risk. Used as a paint, varnish, and lacquer solvent or as a spinning solvent to clean and dry parts of precision equipment.



55 08 01 02	Acetone 500 ml Acetone 14 kg	Btl. Can
----------------	---------------------------------	-------------

## Activated Alumina

Alumina Activada 活性アルミナ 活性氧化铝

A highly porous, granular form of aluminium oxide having preferential adsorptive capacity for moisture and odor contained in gases and some liquids. When saturated, it can be regenerated by heat. The cycle of adsorption and reactivation can be repeated many times. Used as a catalyst or carrier in chromatography, and in water purification.

55 08 06 07 08	Alumina activated, " " " 500 gm 15 kg 160 kg	Btl. Can Drm
----------------------	--	--------------------

55

## Activated Carbon (Activated Charcoal/Coconut)

Carbón Activo 活性炭 活性炭

An amorphous form of carbon characterized by high adsorptivity for many gases, vapors, and colloidal solids.

Used for water and air purification, solvent recovery, waste treatment, removal of sulfur oxide from stack gases and "clean" rooms as a deodorant, and for air conditioning.

55 08 12	Activated carbon 15 kg	Bag
----------	------------------------	-----

## Aluminium Oxide, Al<sub>2</sub>O<sub>3</sub>

Óxido de Aluminio 酸化アルミニウム 氧化铝

Non flammable, white powder, balls or lumps of various mesh. Used for absorbing gases and water vapors.

Industrially used for the manufacture of abrasives, electrical insulators, catalyst and catalyst supports.

55 08 15 16	Aluminium oxide " "	500 gm 20 kg	Btl. C/T
----------------	------------------------	-----------------	-------------

## Ammonium Chloride

Cloruro Amónico 塩化アンモニウム 氯化铵

White crystals, cool saline smell, somewhat hygroscopic. Soluble in water and glycerol. Used for dry batteries, dyeing and painting, soldering flux, fertilizer, electroplating, washing powder, etc.

55 08 20 21	Ammonium chloride " "	500 gm 25 kg	Btl. Bag
----------------	--------------------------	-----------------	-------------

## Ammonia Solution

Solución Amoniaca アンモニア水 氨水

For general cleaning and chemical purposes.



55 08 25 26	Ammonia solution, " "	500 gm 18 kgs	Btl. "
----------------	--------------------------	------------------	-----------

## Barium Chloride, BaCl<sub>2</sub>·2H<sub>2</sub>O

Cloruro de Bario 塩化バリウム 氯化钡

Colourless flat crystals. Soluble in water. Toxic by ingestion. Used as a chemical reagent, lubrication oil additive, boiler compound, textile dyeing, pigments, etc.



55 08 30 31	Barium chloride, " "	500 gm 25 kg	Btl. Bag
----------------	-------------------------	-----------------	-------------

## Benzene, C<sub>6</sub>H<sub>6</sub>

Benceno ベンゼン 苯

A colourless to light yellow, mobile, nonpolar liquid of highly retractive nature; aromatic odor; vapors burn with a smoky flame. Flammable, dangerous fire risk. Used in the manufacture of ethylbenzene (for styrene monomer); dodecylbenzene (for detergents) maleic anhydride, benzene sulfonic acid, as a solvent.



55 08 34	Benzene 500 cc	Btl.
----------	----------------	------

## Benzine - Ligroin

Bencina-Ligroin ベンジン 轻质汽油

A saturated, volatile fraction of petroleum boiling in the range of 60 – 100 °C. There is a special grade of ligroin known as petroleum benzine.



Highly flammable, dangerous fire risk. Toxic by ingestion and inhalation. Used as a solvent for resins, paints, varnishes, etc.



55 08 36	Benzine, 500 cc	Btl.
----------	-----------------	------

## Calcium Chloride, CaCl<sub>2</sub> or CaCl<sub>2</sub>·H<sub>2</sub>O

Cloruro de Calcio 塩化カルシウム 氯化钙

White, deliquescent crystals, granules, lumps or flakes.

Used for de-icing and dust control for thawing refrigeration brines, and as a drying and desiccating agent.

55 08 40	Calcium chloride, flake 25 kg	Bag
----------	-------------------------------	-----

## Calcium Hypochlorite Solution (Bleaching Liquor)

Solución de Hipoclorito de Calcio (Licor para Blanquear)  
さらし液 (次亜塩素酸カルシウム溶液) 漂白粉溶液

Used to whiten textile or paper by chemical action. Also the agent itself.

Bleaching agents include hydrogen peroxide (the most common), sodium hypochlorite, sodium peroxide, sodium chloride, etc.

55 08 44	Bleaching liquor 30 kg	Can
----------	------------------------	-----

## Calcium Hypochlorite, Ca(OCl)<sub>2</sub>

Hipoclorito de Calcio 次亜塩素酸カルシウム 次氯酸钙

A white, solid, crystalline oxidizing material. **Hazard:** Toxic by ingestion, skin contact, and inhalation. Dangerous fire risk when in contact with organic materials.



Used as an algicide, bactericide, deodorant, portable water purifier, and disinfectant for swimming pools, etc.

55 08 47	Calcium hypochlorite	500 gm	Btl.
48	"	20 kg	Bag

## Calcium Hydroxide , Ca(OH)<sub>2</sub>

(Slaked Lime or Lime Powder)

Hidróxido de Calcio (Aal Apagada o Polvo de Calcio) 消石灰 氢氧化钙

Soft, white crystalline powder with an alkaline, slightly bitter taste.

Used for mortar, cements, white wash, soil conditioner, drying hold, and cleaning.

55 08 50	Calcium hydroxide,	20 kg	Bag
----------	--------------------	-------	-----

## Carbon Tetrachloride, CCl<sub>4</sub>

Teraclporuro de Carbono 四塩化炭素 四氯化碳

Colourless liquid, vapor 5.3 times heavier than air. **Hazard:** Toxic by ingestion, inhalation, and skin absorption.



Use: As a refrigerant, metal degreaser, agricultural fumigant, solvent, or for chlorinating organic compounds.

55 08 60	Carbon tetrachloride	500 gm	Btl.
61	"	25 kg	Can

## Industrial Castor Oil

Aceite de Ricino Industrial 工業用ヒマシ油 工业用蓖麻油

Pale yellow or almost colourless, transparent, viscid liquid with a taint, mild odor.

Use: Plasticizer in lacquers and nitrocellulose, polyurethane coatings, elastomers and adhesives, surface acting agents, industrial lubricants, electrical insulating compounds, etc.

55 08 65	Industrial castor oil,	500 gm	Btl.
66	"	17 kg	Can

## Caustic Soda, NaOH

Sodium Hydroxide

Sosa Cáustica, NaOH Hidróxido de Spdio

苛性ソーダ 烧碱、苛性钠、氢氧化钠

White deliquescent solid, chiefly in the form of beads or pellets.

**Hazard:** Corrosive to tissue in the presence of moisture. Strong irritant to tissue (eyes, skin, mucous membrane).



Used as a detergent.

55 08 70	Caustic soda, flake	225 gm	Btl.
71	"	500 gm	Can
72	"	15 kg	"
73	"	25 kg	Bag
55 08 75	Caustic soda, block	5 kg	Can
76	"	10 kg	"
77	"	20 kg	"

## Soda Ash

(Cenizas de ) Cal ソーダ灰 纯碱(苏打灰)

Grayish white powder or lumps containing up to 99 % sodium carbonate. Soluble in water, non combustible, non toxic.

Used for soap and detergents, water treatment, cleaning preparation, etc.

55 08 80	Soda ash, 25 kg	Bag
----------	-----------------	-----

## Common Crystal Soda, Na<sub>2</sub>CO<sub>3</sub>·H<sub>2</sub>O

Sodium Carbonate

Soda Cristal Común 洗いソーダ 普通石碱

White, odorless, small crystals or crystalline powder. Used for cleaning and as a boiler compound. Also used for the pH control of water and for cleaning and bleaching textiles.

55 08 83	Crystal soda 20 kg	Bag
84	" 25 kg	"

## Chlorothene NU

(Motor Clean)

Cloroteno NU (Limpieza Motor) クロローセン 氯乙烯 NU

Dow chemical product name for a series of chlorinated organic solvents. Used for cold cleansing metal parts as an industrial solvent. **Avoid prolonged inhalation of the vapor or repeated contact with the skin.**

55 08 86	Chlorothene NU, 24 kg	Can
----------	-----------------------	-----

## Denatured Alcohol

Alcohol Desnaturalizado 变性アルコール 变性酒精

A mixture or 95 % ethyl alcohol and 5 % water with an additive for denaturing. Unfit for use as a beverage.



**Hazard:** Flammable, dangerous fire risk. May be toxic by ingestion.

Used as a solvent, antifreeze, brake fluid, or fuel.

55 08 90	Denatured alcohol, 500 gm	Btl.
91	" 14 kg	Can
92	" 200 ltr	Drum

## Methanol CH<sub>3</sub>OH

(Methyl Alcohol, Wood Alcohol)

Metanol CH<sub>3</sub>OH メタノール 甲酇

Clear, colourless, mobile, highly polar liquid.



**Hazard:** Flammable, dangerous fire risk. Toxic by ingestion (causes blindness).



Used as an antifreeze, solvent for nitrocellulose, chemical synthesis, fuel for utility plants, etc.

55 08 95	Methanol	500 ml	Btl.
96	"	14 kg	Can
97	"	160 kg	Drum

## Dimethyl Sulfoxide, $(\text{CH}_3)_2\text{SO}$

Dimetil Sulfóxido ジメチルスルホキサイド 二甲亚砜

Colourless, hygroscopic liquid.

Hazard: Readily penetrates skin and other tissues. Combustible.

Used for industrial cleaners, paint stripping, and in hydraulic fluids.



55 09 01	Dimethyl sulfoxide	500 ml	Btl.
----------	--------------------	--------	------

## Dolomites, $\text{CaMg}(\text{CO}_3)_2$

Dolomitas ドロマイド 大理石

A carbonate of calcium and magnesium. Non-combustible.

Used as a refractory for furnaces, in the manufacture of magnesium compounds and magnesium metals, etc.

55 09 04	Dolomite	30 kg	Bag
----------	----------	-------	-----

## Ethylene Glycol, $\text{CH}_2\text{OHCH}_2\text{OH}$

Etilenglicol エチレングリコール 乙二醇

Clear, colourless, syrupy liquid which lowers the freezing point of water. Odorless and soluble in water, alcohol and acetone.

Hazard: Toxic by ingestion and inhalation.

Used as a coolant and antifreeze, asphalt emulsion paint, heat transfer agent, brake fluid, solvent, or foam stabilizer.



55 09 07	Ethylene glycol	500 ml	Btl.
08	"	20 kg	Can

## Ferrous Sulfate, $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$

Sulfato de Hierro 硫酸第一鐵 硫酸亚铁

Greenish or yellow-brown crystals or granules. Odorless and soluble in water. Extracted from nickel steel, or waste sulfuric acid of oxide titanium.

Mainly used for corrosion control of the seawater side of a condenser or for water and sewage treatment.

55 09 11	Ferrous sulfate	25 kg	Bag
----------	-----------------	-------	-----

## Glycerine, $\text{C}_3\text{H}_5(\text{OH})_3$

Glicerina グリセリン 丙三醇

Clear, colourless, odorless, syrupy liquid. Combustible and has low toxicity. Used as a solvent and as a binder for cements and mixes. Also used in special soap, lubricants, softeners, hydraulic fluid, the antifreeze mixture for emergency generators and lifeboat diesel engines.

55 09 14	Glycerine	500 gm	Btl.
15	"	5 kg	Can
16	"	22 kg	"

## Hydrochloric Acid

Ácido Hidroclórico 塩酸 盐酸

A colourless or slightly yellow, fuming, pungent liquid. A strong, highly corrosive acid which is highly toxic by ingestion and inhalation and is a strong irritant to the eyes and skin.



Used for the removal of boiler scale, for picking and metal cleaning, industrial acidizing, general cleaning, and as a laboratory reagent.

55 09 20	Hydrochloric acid,	500 gm	Btl.
21	"	23 kg	"
22	"	18 kg	"

## Hydrochloric Acid Solution

Solución de Ácido Hidroclórico) 塩酸液 盐酸溶液 NU

Contains 18 ltr in a bottle.

55 09 24	Hydrochloric acid solution,	18 ltr.	Btl.
----------	-----------------------------	---------	------

## Hydrogen Peroxide, $\text{H}_2\text{O}_2$

Peróxido de Hidrógeno 過酸化水素 过氧化氢

Concentrated solutions are highly toxic and very strong irritants.

Hazard: Dangerous fire and explosion risk, strong oxidizing agent.



Use: Bleaching and deodorizing of textiles, wood, pulp, hair, fur, etc. Also used as an antiseptic or in refining and cleaning metals. Sometimes used as a substitute for chlorine in water and sewage treatment.

55 09 27	Hydrogen peroxide,	20 kg	Btl.
----------	--------------------	-------	------

## Magnesium Oxide, $\text{MgO}$

Oxido de Magnesio 酸化マグネシウム 氧化镁

White powder, slightly soluble in water, soluble in acids and ammonium salt solutions. Non combustible.



Toxic if the fumes are inhaled.

Used for refractories, especially for steel furnace linings, electrical insulation, removal of sulfur dioxide from stack gases, etc.

55 09 30	Magnesium oxide	500 gm	Btl.
31	"	15 kg	Bag

## Nitric Acid

Ácido Nítrico 硝酸 硝酸

Transparent, colourless or yellowish corrosive liquid. A strong oxidizing agent that will attack almost all metals.



Hazard: Dangerous fire risk in contact with organic materials. Highly toxic by inhalation, corrosive to the skin and mucous membranes.

Use: Organic synthesis (dyes, drugs, explosives, cellulose nitrate, nitrate salts), photoengraving, etching steel.

55 09 37 38	Nitric acid " 500 gm 25 kg	Btl. "
----------------	----------------------------------	-----------

## Oxalic Acid, HOOCCOOH · 2H<sub>2</sub>O

Ácido Oxálico 蔗酸 草酸

Transparent, colourless crystals.

**Hazard:** Toxic by inhalation and ingestion, strong irritant.

Uses: General metal and equipment cleaning, purifying agent and intermediate for many compounds.



55 09 41 42	Oxalic acid, " 500 gm 25 kg	Btl. Bag
----------------	-----------------------------------	-------------

## Potassium Bichromate, K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>

Bicromato Potásico 重クロム酸カリ 重铬酸钾

Bright, yellowish - red, transparent crystals, bitter, metallic taste.

**Hazard:** Toxic by ingestion and inhalation. Dangerous fire risk in contact with organic materials. Strong oxidizing agent.

Use: Analytical reagent; brass pickling compositions; electroplating; chrome glues and adhesives, depolarizer in dry cell batteries.



55 09 45	Potassium bichromate, 25 kg	Can
----------	-----------------------------	-----

## Potassium Chromate, K<sub>2</sub>CrO<sub>4</sub>

Cromato Potásico クロム酸カリウム 铬酸钾

Yellow crystals, soluble in water.

**Hazard:** Toxic by ingestion and inhalation.

Use: Reagent in analytical chemistry, aniline black, chromate pigments.

55 09 47 48	Potassium chromate, 500 gm " 20 kg	Btl. Can
----------------	---------------------------------------	-------------

## Silica Gel

Gel de Silice シリカゲル 硅胶

A regenerate adsorbent consisting of amorphous silica. Non-combustible.

Use: Dehumidifying and dehydrating agent, air conditioning, drying of compressed air and other gases, and liquids such as refrigerants and oils containing water in suspension.

55 09 51 52	Silica gel 500 gm " 12.5 kg	Can "
----------------	--------------------------------	----------

## Sodium Bicarbonate, NaHCO<sub>3</sub>

Bicarbonato de Sodio 重炭酸ナトリウム 碳酸氢钠

White powder or crystalline lumps; cooling slightly alkaline taste; soluble in water.

Use: Manufacture of rubber, gold and platinum plating, fire extinguishers, cleaning preparations, lab reagent, antacid, etc.

55 09 55 56	Sodium bicarbonate, 500 gm " 25 kg	Pkt. Bag
----------------	---------------------------------------	-------------

## Sodium Borate or Borax, Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>

Borato o Bórox de Sodio ホウ砂 硼砂

Safe and efficient, white, free flowing crystal cleaner for general cleaning, and washing painted, varnished, and enameled surfaces, kitchen cabinets, refrigerators, etc. Also used in soldering flux.

55 09 58	Sodium borate, 500 gm	Pkt.
----------	-----------------------	------

## Sodium Hypochlorite, NaOCl · 5H<sub>2</sub>O

Hipoclorito de Sodio 次亜塩素酸ソーダ 次氯酸钠

Unstable in air unless mixed with sodium hydroxide.



Strong oxidizing agent, usually stored and used in solution, disagreeable, sweetish odor and pale greenish colour. Soluble in cold water.

**Hazard:** Fire risk in contact with organic materials. Toxic by ingestion, strong irritant to tissue.

Use: Bleaching paper, pulp, textiles, etc. Water purification, fungicide, reagent, germicide.

55 09 60	Sodium hypochlorite 20 kg	Btl.
----------	---------------------------	------

## Sodium Phosphate, Tribasic, Na<sub>3</sub>PO<sub>4</sub> · 12H<sub>2</sub>O

Fosfato de Sodio Tribasico リン酸三ナトリウム 三盐基磷酸钠

Colourless crystals, soluble in water. Non flammable.

Use: Water softeners, boiler water compounds, detergent, metal cleaner, paint removers, industrial cleaners.

55 09 63	Sodium phosphate, tribasic, 25 kg	Bag
----------	-----------------------------------	-----

## Sodium Silicate or Water Glasses

Silicato de Sodio o Cristales リン珪酸ソーダ・水ガラスナトリウム 硅化钠或水玻璃

Non combustible, non toxic, so called water glass, soluble glass or liquid glass. For mixing with soap, anti-fire agents, cement hardener, and water softener, etc.

55 09 66 67	Sodium silicate, 500 gm " 25 kg	Btl. Can
----------------	------------------------------------	-------------

## Sulfamic Acid, HOSO<sub>2</sub>NH<sub>2</sub>

Ácido Sulfámico スルファミン酸 氨基磺酸

White crystalline solid, non volatile, non hygroscopic. Soluble in water and odorless. **Toxic by ingestion.**

Use: Metal and ceramic cleaning, amine sulfamates, pH control, hard-water scale removal, electroplating.

55 09 70 71	Sulfamic acid 500 gm " 25 kg	Btl. Bag
----------------	---------------------------------	-------------

## Sulphuric Acid, H<sub>2</sub>SO<sub>4</sub>

Ácido Sulfámico 濃硫酸 硫酸

Strongly corrosive, dense, oily liquid. Very reactive, dissolves most metals; concentrated acid oxidizes, dehydrates, or sulfonates most organic compounds.

**Hazard:** Strong irritant to tissue. Use great caution in mixing with water because of heat evolution that causes explosive spattering. Always add the acid to the water, never the reverse.

**Use:** An alkylation catalyst, electroplating baths, iron and steel, lab reagent, non ferrous metallurgy.



55 09 74	Sulphuric acid	500 gm	Btl.
75	"	35 kg	"
76	"	20 kg	"



## Sulphuric Acid Dilution

Solución de Ácido Sulfúrico 希硫酸 稀硫酸

Gravity 1: 1.24 acid for use in a lead type battery.

55 09 78	Sulphuric acid dilution	500 gm	Btl.
79	"	30 kg	"
80	"	20 kg	"

## Toluene, C<sub>6</sub>H<sub>5</sub>CH<sub>3</sub>

Tolueno トルエン 甲苯

Colourless liquid, benzene-like odor. Soluble in alcohol, benzene, and ether; insoluble in water.

**Hazard:** Flammable, dangerous fire risk, toxic by ingestion, inhalation, and skin absorption.

**Use:** Aviation gasoline and high octane blending stock. Also used as a solvent for paints and coating diluent, and thinner for nitrocellulose lacquers.

55 09 81	Toluene	18 ltr	Can
82	"	200 ltr	Drum



## Trichloroethylene, CHCl:CCl<sub>2</sub>

Tricloroetileno トリクロレン 三氯乙烯

Stable, low boiling, colourless, photoreactive liquid.

Non flammable, toxic by inhalation.

**Use:** Metal degreasing, solvent dyeing, dry cleaning; refrigerant and heat - exchange liquid; fumigant; cleaning and drying electronic parts, diluent in paints and adhesives.



55 09 85	Trichloroethylene	500 gm	Btl.
86	"	25 kg	Can

## Zinc Chloride, ZnCl<sub>2</sub>

Cloruro de Zinc 塩化亜鉛 氯化鋅

White granular deliquescent crystals or crystalline powder. Severe irritant to skin and tissue. Used as a dehydrating and condensing agent in organic synthesis: fire proofing and preserving wood: soldering fluxes, electroplating, antiseptic and deodorant preparations.

55 09 90	Zinc chloride, 500 gm	Btl.
91	" 25 kg	Bag



## Urea Water, CO(NH<sub>2</sub>)<sub>2</sub>

Aqua de urea 尿素水 尿素水

Marine Urea Solution, also known as AUS40, is a 40% urea-based solution used for the purpose of reducing Nitrogen Oxides (NOx) emission from vessels' exhaust pipes.

55 09 92	Urea water, 40% solution	Ltr
----------	--------------------------	-----

## Neutralizer for Ballast Water Chemical Treatment Systems

Neutralizante para sistemas de tratamiento químico de aguas de lastre

バラスト水薬剤処理用中和剤 压载水化学处理用中和剂

**Sodium Sulfite, Anhydrous - Na<sub>2</sub>SO<sub>3</sub>**

**Sodium Metabisulfite, Anhydrous - Na<sub>2</sub>O<sub>5</sub>**

**Sodium Thiosulfate Pentahydrate - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 5H<sub>2</sub>O**

**Sodium Thiosulfate, Anhydrous - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>**

Since September 2017, International Convention for the Control and Management of Ship's Ballast Water and Sediments has been issued and required neutralizer for ballast water treatment equipment. Under this treaty, all vessels are required for applicable management for ballast water due to avoid damage against marine environment. When de-ballasting it is effect to make harmless by injection of neutralizer in ballast water. Each neutralizer is usually available in 25 kgs/bag.

CODE	Description	**/CI2 1ppm~10,000t
55 09 96	Sodium Sulfite, Anhydrous	17.8 kg
97	Sodium Metabisulfite, Anhydrous	13.4 kg
98	Sodium Thiosulfate Pentahydrate	8.7 kg
99	Sodium Thiosulfate, Anhydrous	5.5 kg

\*\* Amount of neutralizer required to neutralize Chlorine. This is theoretical quantity by calculation and may differ from the amount actually requires.

## Marine Chemicals

Productos Químicos Marinos 船用化学薬品 船用化学药品

Chemical products for marine engine maintenance, tank cleaning, fuel additives, water treatment, etc. There are many of these products; only popular items are listed below with their common name.

We have provided the marine chemicals comparison table with brand names from major chemical manufacturers over the world.

When it is necessary to use any appointed brand, please specify the manufacturer's name and brand name with the code number.

**How to order: CODE**

DESCRIPTION, LTR, MANUFACTURER'S NAME and BRAND (Can or Drm)

CODE	Description	Application	Unit Per Can or Drm.
		Ltr/Can	
55 10 01	Degreaser	General degreaser for machine & parts, and various cargo tanks	18 200
55 10 02			
55 10 05	Air intercooler cleaner	Cleaning of air inter-cooler of main engine & generator	18 200
55 10 06			
55 10 11	Water soluble degreaser	General purpose degreaser for machinery, parts, or hand cleaning purposes.	18 200
55 10 12			
55 10 16	Alkaline cleaner	Powdered alkaline cleaner for animal or vegetable oil tanks and painted surfaces of walls or floors	18 200
55 10 17			
55 10 21	Electric motor cleaner	Electric motor cleaner for electric motor, parts and appliances	18 200
55 10 22			
55 10 23	Ultrasonic Cleaner	Water-based multipurpose cleaning liquid for use in ultrasonic baths and cleaning machines.	25 200
55 10 24			
55 10 26	Carbon solvent for oil carbon	Carbon solvent for oil carbon, and for cleaning of strainer, piston & F.O.burner	18 200
55 10 27			
55 10 31	Carbon solvent for hard carbon	Carbon solvent for hard carbon, and cleaning of strainer, piston & F.O.burner	18
55 10 36	Cleaning cooling system-Neutrality	Cleaner for main engine cooling system	18
55 10 37	Cleaning cooling system-Alkalinity		18
55 10 41	Tank cleaner for fuel oil tank	Fuel oil & cargo oil tank cleaner	18 200
55 10 42			
55 10 46	Fuel oil additive for sludge dispersion & water separation	Dispersion of sludge component & water separation in fuel oil	18 200
55 10 47			
55 10 51	Fuel oil additive for sludge dispersion	Prevention of sludge formation	18 200
55 10 52			
55 10 56	Fuel oil additive combustion catalytic type	Prevention of high temperature corrosion, ash sticking, and soot & smoke	18 200
55 10 57			
55 10 61	Fuel oil additive combustion catalytic type, concentrated	Prevention of corrosion, carbon & ash deposition, soot fire & smoke	18 200
55 10 62			
55 10 63	Fuel oil additive lubricity improver	For gas oil and diesel oil	18
55 10 64	Fuel oil additive anti-mold sterilizer	For diesel oil	18
55 10 65	Fuel oil additive cold oil improver	For marine gas oil (MGO) and marine diesel oil (MDO)	18
55 10 66	Emulsion breaker	For heavy oil & fuel oil, and as sludge breaker of fuel oil tank	18 200
55 10 67			
55 10 71	Demulsifying accelerator	Anti-emulsifier and emulsion breaker for recycling purifier water	18

(to be continued)

55 10 76	Oil spill clean up agent	Emulsion/dispersion type	18
55 10 77			200
55 10 81	Rust remover	For heat exchanger, evaporator, boiler, removes mill scale & red rust	18
55 10 82	Scale remover		
55 10 88	Cement & lime remover	Diluted with water, for cargo hold cleaning	18
55 10 89	Cargo hold cleaning agent	Heavy duty alkaline cleaner for petroleum coke	18
55 10 86	Cooling water treatment	Corrosion inhibitor for the fresh water cooling system of the internal combustion engine	18
55 10 95			200
55 10 90	Disinfectant for cooling water	For contamination in the cooling water	10
55 10 91	Boiler water treatment	Boiler water treatment for low pressure service	18
55 10 92	Evaporator treatment	Prevention of scale deposition in high and low-pressure evaporators	18
55 10 93	Purifier detergent	For cleaning the purifier	18
55 10 94	Marine organism adhesion inhibitor	For preventing marine organism in sea water system	25

## HOCNF & CEFAS Offshore Cleaning Chemicals

Productos químicos de limpieza en alta mar HOCNF &amp; CEFAS

HOCNF/CEFAS 認証済みオフショア用洗浄剤

HOCNF/CEFAS 获得认证的海上清洁剂

For Offshore Cleaning Chemicals for offshore use, approved by OSPAR Guidelines for Completing the Harmonised Offshore Chemical Notification Format (HOCNF) & The Centre for Environment, Fisheries and Aquaculture Science (CEFAS).

CODE	Product	Content	Description
55 15 05 06	Unitor Cleanrig CHP	200 ltr 1,000 ltr	A water-based rig cleaner specially designed to provide efficient cleaning and optimum environmental and handling properties. It contains unique environmentally adapted surfactants, pH regulating additives and corrosion inhibitors allowing removal of oil spills, sludge, oil and water based mud, dirt and grime from all surfaces included painted.
55 15 07 08	Unitor Cleanrig CHP 50%	200 ltr 1,000 ltr	
55 15 09 10	Unitor Cleanrig CHP RTU	200 ltr 1,000 ltr	
55 15 28	Unitor Scaleclean EX	25 kg	An environmental adapted and highly effective rust and carbonate remover designed for use in production equipment, boiler, evaporators, etc.

(to be continued)

CODE	Product	Content	Description
55 15 29	Unitor Cleanphase CB	25 ltr	A degreaser for removing oil, wax, sludge and mud. It is based on a low toxic solvent and emulsifier that easily splits after settling. The product is ideal for cleaning especially tough contamination from drilling, well operations and other activities leaving hydrocarbon-based residues.
55 15 30	Unitor Electrosol Plus	25 ltr	A highly concentrated solvent based product for cleaning and degreasing electrical equipment. It provides rapid penetration, quick clean-up and does not attack insulation.
55 15 54	Unitor Scaleclean DL	25 ltr	Rust and carbonate remover containing an acid and wetting agents. It is designed for use in production equipment, boilers, evaporators, etc.
55 15 55 56	Unitor Uniclean	25 ltr 200 ltr	An advanced micro-emulsion cleaner, which combines the properties of a water and solvent based cleaners. Due to its unique properties, it ensures safe handling while in use and also reducing hazards related to covering and hosing the material to be removed. The specially selected surfactants allow maximum penetration of oil and grease while hazards are kept at a minimum. This ensures the product to safely react and remove oil, grease, dirt, sludge and grime. The special surfactants will effectively keep the removed contamination in water solution while being flushed to the drain.

and Tiger Shells. Applications will be Boilers, Condensers, Keel Coolers, Tube Bundles, Bow Thrusters, Engine Cooling Systems, Heat Exchangers, Air Conditioning, Main and Aux Sea Water Systems and more. Rydlyme Marine can be used for any material except for some metals such as galvanized/zinc, magnesium and some aluminium. 100% biodegradable, non-toxic and non-hazardous. Unlike other chemical descalers and traditional harsh acids, this can be safely handled by personnel and you can even hold it in your bare hand without injury.

CODE	Contents	CODE	Contents
55 10 83 84	15 ltr / case 18 ltr / pail	55 10 85 87	209 ltr / drum 1,249 ltr / tote

Name of Mfr.: Apex Engineering Products Corporation

## Biodegradable Degreaser

Desengrasante Biodegradable

生分解性デグリーサー 生物分解去油汚

A waterbased, quick separating degreaser. Most effective and economical and being fully biodegradable it will not harm marine life. To be effective many types of substances, such as grease, fat, oil, soot, dirt, tar, etc.



Unit Per Can

55 15 01 02	Multi Purpose, 25 ltr 205 ltr	55 15 03 04	Heavy Duty, 35 ltr 105 ltr
----------------	----------------------------------	----------------	-------------------------------

## Maintenance Cleaner and Degreaser Loctite®

Limpador y desengrasador 洗淨・油除去剤 清洁剂及除油剂

Developed for the toughest cleaning jobs in industrial environments. The broad product range comprises high-tech solutions for removing paint from surfaces (graffiti), cleaning hands, floors, commercial vehicles, boats, awnings, tanks, pipes and many other applications.



Unit Per Can

CODE	Type	Size	Memo.	Characteristics
55 15 13 14	7012	5 ltr 20 ltr	Best for painted surface washing	General cleaner and degreaser for heavy contaminants; cleaning of all metal mechanical parts, synthetical substances, rubber and painted surfaces; solvent-free; can be applied by spraying, dipping and manually; application concentration: 10 to 500 grm/ltr.
55 15 15 16	7013	5 ltr 20 ltr	Best for general parts washing	General cleaner for removal of all kind of contaminants; solvent-free; use undiluted, just apply a sufficient amount of product using the brush or hand shower; application concentration: ready-to-use.

(to be continued)

## Biodegradable Marine Descaler "Rydlyme Marine®"

Desengrasador naval biodegradable

生分解性ディスケーラー 生物可降解除垢剂

An innovative biodegradable descaler designed for the marine industry to improve the performance of vital water systems by safely dissolving deposits, such as Water Scale/ Calcium, Rust, Lime Scale, Barnacles, Zebra Mussels,



CODE	Type	Size	Memo.	Characteristics
55 15 17 18	7018	5 ltr 20 ltr	Best for high pressure washing applications	High pressure cleaner for removal of dirt, oil and grease from washable surfaces; solvent-free, biodegradable; to be applied using spray equipment or foam generating machine; application concentration: 5 to 500 grm/ltr.
55 15 11 19	7840	750 ml 5 ltr	-	Natural Blue; universal cleaner for removal of dirt, oil and grease from washable surfaces such as engine parts, ovens, exhaust hoods, drilling rigs; to be used manually or with cleaning equipment; solvent-free and biodegradable; pine-scented, non-flammable and non-toxic; contains no ODCs.
55 15 20 21	7860	5 ltr 20 ltr	-	Low Foam Floor Cleaner for daily cleaning of sensitive floor materials; ideal to be used in floor cleaning equipment and also suitable for manual application; solvent-free; application concentration: 25 to 100 grm/ltr.
55 15 22 23	7861	5 ltr 20 ltr	-	Heavy-duty Floor Cleaner for concrete floors; applicable with high-pressure and steam equipment; solvent-free; application concentration: 50 to 200 grm/ltr.

Name of Mfr.: Henkel

## Cleaner and Degreaser

### Henkel BONDERITE®

Limpiaor y desengrasador 洗淨・油除去剤 清洁剂及除油剂

The products selected in this table provide the right solution for practically any cleaning or degreasing task you might encounter on board.

CODE	Product Name	Size	Application	Product Details
55 15 31	BONDERITE® Grato Marine Shine Shampoo	5 kg	Alkaline deck shampoo	Shampoo for general maintenance cleaning with brightening effect. Application concentration: 2 - 5%.
55 15 32	BONDERITE® Grato Marine Acid	1 ltr	Acid cleaner for deck and flash rust removal	Removal of flash rust and acid teak deck shampoo. Application concentration: 10 - 50%.

(to be continued)

55 15 33	BONDERITE® Grato Marine Cleaner	1 ltr	Concentrated cleaning product for difficult cleaning operations	For all deep cleaning, cleaning and renovation of all rubber and plastic parts, leather seats, life boats etc. pH neutral - safe in use. Application concentration: 10 - 100%.
55 15 34	BONDERITE® Grato Marine Glass Cleaner	1 ltr	Glass and plastic cleaner	Residue-free removal of grease, nicotine, insects, etc. Suitable for all glass and plastic surfaces. Ready to use wipe on - wipe off cleaner in 1 ltr bottle with trigger.
55 15 35	BONDERITE® Grato Marine Polish	1 kg	Cleaning and renovation polish	Ready to use polish for stainless steel and aluminium. Shining, UV and salt water resistant finish.
55 15 36 37	BONDERITE® 37 Grato 3000	20 kg 200 kg	One for all high concentrated alkaline cleaner/ degreaser	Allround degreaser for efficient removal of grease, fats, light flash rust, etc. To be used on all kind of surfaces of machines, parts, painted surfaces or glass. Application concentration: from 1 - 30%, depending on the soiling degree.
55 15 38	BONDERITE® Grato 3100	26 kg	Light alkaline high concentrated allround cleaner/ degreaser	For general cleaning / degreasing operations on more sensitive surfaces (e.g. aluminium). To be used on all kind of surfaces from machines, parts, painted surfaces, glass, etc. Application concentration: 1 - 30%, from 15°C and beyond, depending on the soiling degree.
55 15 39	BONDERITE® Grato ACD 1166	26 kg	Acid cleaner for lime and oxide removal	For removal of mineral soilings and weak greasy pollutions. Phosphoric acid free. Application concentration: 3 - 30% at 20 - 40°C.

(to be continued)

# 55

## Cleaning Material & Chemicals

Unit Per Can				
CODE	Product Name	Size	Application	Product Details
55 15 40	BONDERITE® Grato 1166	15 kg	Phosphoric acid cleaner with detergents	For removal of corrosion of all metals. Removes fats and salts. Spot cleaner after cleaning fats and fatty acids. Safe on painted surfaces and odorless. Application concentration: 1 - 30% at 20 - 80°C.
55 15 41 42 A	BONDERITE®	20 kg 210 kg	Neutral soap	For general neutral cleaning of all surfaces and applications; not corrosive nor toxic; well foaming; IMO approval. Application concentration: 1 - 20% at 20 - 40°C.
55 15 43	BONDERITE® Glin Floor	10.5 kg	Mild low foaming floor cleaner	For daily cleaning of all kind of floors. Leaves protection layer. Ideal for use in floor cleaning machines. Application concentration: 5 - 10% at room temperature.
55 15 44	BONDERITE® Glin	25 kg	Mild alkaline universal degreaser	Universal, liquid cleaner for the cleaning of work shops and machines. Nicely perfumed. Ideal for manual application. High demulsifying properties. Safe solvent, phosphate and alkali free product. Application concentration: 5 - 30% at room temperature.
55 15 45	BONDERITE® Glin G 5	10x1.4 kg	Renovation paste	Ready to use special paste to remove mineral deposits and oily contamination of all surfaces. Abrasive action but without scratching the surface. To be used at room temperature.
55 15 46	BONDERITE® Grato 12	31 kg	Light alkaline degreaser	Concentrate for high pressure cleaning of engines and machinery parts. High demulsifying properties. Contains rust protection agent. Application concentration: 5 - 30 % at room temperature up to 40°C.
55 15 47	BONDERITE® Grato 80	35 kg	Alkaline high pressure and steam jet cleaner	High concentrated degreaser for heavy duty operations. Usable on steel and colored metals. Contains inhibitor for use on aluminium. Application concentration: 5 - 20% at room temperature up to 80°C.
55 15 48	BONDERITE® Solvclean 106	24 kg	Emulgator free cold cleaner	Solvent based cleaner for removal of oil contaminations. Usable manually or in steam jet cleaner. Application concentration: 20 - 100%.
55 15 49	BONDERITE® X	7.5 kg	Universal cleaning powder	Fast soluble powder for all general cleaning/ degreasing tasks ( e.g. floors, deck, machines, cloths, etc.); IMO approval. Application concentration: 50 - 100 grm/ltr.
55 15 50	BONDERITE® X Liquid	10 kg	Alkaline water based cleaner	Removes vegetable, mineral and animal grease and oils. Can be used on all surfaces (steel, aluminium, painted, etc.); good demulsifying properties. Application concentration: 3 - 20% from room temperature up to 80°C, depending on soil degree.

(to be continued)

(to be continued)

CODE	Product Name	Size	Application	Product Details
55 15 51	Novaclean N	36 kg	Neutral deruster	Neutral deruster & descaler for ferrous and non ferrous metals in spray and immersion processes. Replaces acid or strong alkaline products. Application concentration: 10 - 20% at 20 - 60°C.
55 15 52	Turco VK 5	21 kg	Liquid silicate free alkaline cleaner	Heavy duty cleaner for high performance degreasing and removal of combustion residues and animal and vegetable fats. Application concentration: 1 - 20% at room temperature.
55 15 53	Turco Plaudit 3752	18 kg	Multi purpose light alkaline cleaner	Removes shop soils, road grime, greases and lube oils from concrete floors, transportation equipment, construction equipment, drilling equipment and specialized parts. Phosphate and solvent free. Application concentration: 2 - 10% at room temperature.

### Green Degreaser 68

Desengrasador verde 68 biodegradable

生分解性デグリーサー 可生物降解除油剂

An non-ionic water-based highly concentrated blend of biobased cleaning compounds with anti-static effect, good tolerance to hard or soft water, good anti-redepositing capacity and deep cleaning chemistry. It is an environmentally safe cleaner, degreaser, solvent, lubricant and specialty chemical product that derived from renewable, bio-degradable resources for a broad range of industrial application.

It is effective to remove tough-to-clean substances such as oil, grease, dirt and accumulated industrial stains on heavy equipment, tools/parts and machinery. Obtained the "Green Label" from the Singapore Environment Council.

#### Uses and Applications;

A super active alkaline-based colloidal cleaning compound that is particularly effective in heavy-duty applications for general cleaning. It is safe on all surfaces when used as directed. As a concentrate, it is particularly economical in that it can be mixed with water to the desired strength that will adequately perform the cleaning task. It is an effective cleaner in the following categories: All purpose cleaning/degreasing for industrial cleaner, Bilge cleaner, marine cleaner and metal processing for maritime, Oil spills for oil dispersing.

CODE	Contents	CODE	Contents
55 15 61 62	5 ltr/can 25 ltr/can	55 15 63	200 ltr/drum

Name of Mfr.: Marine Diesel Services Pte Ltd.

### Technical Cleaning Liquids

Líquidos de limpieza técnica 特殊クリーニング液 特殊清洁液



Unit Per P.C.

CODE	Product	Content	Description
55 15 64 65 66	Surface Cleaner	5 ltr 10 ltr 30 ltr	Surface Cleaner is used for cleaning and degreasing surfaces to be joined or sealed with WEICON adhesives and sealants.
55 15 71 72 73	Cleaner S	5 ltr 10 ltr 30 ltr	Removes all oily and greasy soilings even gummy lubricants, without leaving residues. Cleans all metals, ceramics, glass and most plastics.
55 15 67 68 69	Plastic-Cleaner	5 ltr 10 ltr 30 ltr	Plastic Cleaner cleans and degreases plastics and is ideal for pre-treating surfaces when bonding sensitive plastics, rubbers or lacquered materials.
55 15 70 80 81	Brake Cleaner	5 ltr 10 ltr 30 ltr	Universal cleaner, especially for the automotive industry (brakes, clutches, gear boxes, etc.). Evaporates without leaving residues.
55 15 82 83 84	Electro Contact Cleaner	5 ltr 10 ltr 30 ltr	Cleaning and degreasing of electrotechnical or mechanical parts, like e. g. electric machines, measuring instruments, balances, switches or sensors. Also ideal for all electric connections, contacts, relays and switchboard plants.
55 15 85 86 87	Citrus Cleaner	5 ltr 10 ltr 30 ltr	Cleaner and degreaser on the basis of citrus essences. Removes quickly adhesive residues, oils, greases, resin, tar, lubricants, rubber residues as well as residues of lead, felt and ball pens.
55 15 74 75 76	Parts and Assembly Cleaner	5 ltr 10 ltr 30 ltr	Cleaner with especially long working time, especially for coarse, oily and greasy soiling as well as for cleaning bigger areas. Due to the high flash point, it corresponds to the VbF Classification A III.
55 15 88 89 90	Sealant and Adhesive Remover	5 ltr 10 ltr 30 ltr	Removes residues of hardened sealants and adhesives as well as lacquers and paints.
55 15 77 78 79	Workshop-Cleaner	5 ltr 10 ltr 30 ltr	Workshop Cleaner cleans and degreases all metals, plastics, rubbers, glass, ceramics and wood. Free of solvents and phosphates. Bio-degradable.

Unit Per Pcs.

CODE	Product	Content	Description				
55 15 91 92 93 94 95	Metal-Fluid	100 ml 500 ml 5 ltr 10 ltr 30 ltr	Highly-effective product for indoor care, protection and cleaning of mat and polished metal surfaces, e. g. Stainless steel, aluminium, chrome, nonferrous heavy metal etc.	55 16 25 26 27	Rust Loosener	5 ltr 10 ltr 30 ltr	With 6-fold function: loosens rust, displaces water, ensures contact, protects against corrosion, lubricates sliding surfaces and preserves metals.
55 15 96 97 98	Silicone	5 ltr 10 ltr 30 ltr	Ideal sliding and release agent which prevents the build-up of adhesive residues and prevents products from sticking to conveyor belts, chutes and slideways.	55 16 28 29 30	Bio Welding Protection	5 ltr 10 ltr 30 ltr	Prevents adhesion of weld spatter to welding nozzles and to surfaces adjacent to the weld without affecting the welding seam itself. Biodegradable - silicone free.
55 15 99 55 16 00 21	AT-44	5 ltr 10 ltr 30 ltr	Allround spray with PTFE for corrosion prevention, cleaning, lubrication, preservation and water displacement.	55 16 31 32 33	Leak Detector	5 ltr 10 ltr 30 ltr	Non flammable compound used for fast, convenient and reliable location of even the smallest leaks approved for use in gas pipelines (DIN/ DVGW Approval NG-5170AO0666).
55 16 22 23 24	W 44 T®	5 ltr 10 ltr 30 ltr	Allround problem solver: loosens rust, displaces moisture, eliminates squeaky noises, cleans metal surfaces, protects and preserves tools.				Name of Mfr.: Weicon GmbH & Co. KG

(to be continued)

55

## Marine Chemical Comparison Table

CODE	Ltr	Usage & Application	Wilhelmsen (Norway)		VECOM (The Netherlands)	DREW MARINE (U.S.A.)	MARICHEM (Greece)	CHEMO (Greece)
			(ex NALFLEET)	(ex UNITOR)				
55 10 01	18	Degreaser	-	Coldwash HD, 25 ltr Cleanbreak, 25 ltr Filtercare, 25 ltr	GP Degreaser, 25 ltr Quick Split Cleaner, 25 ltr	Oil Grease Remover, 25 ltr DREW FRESH 2000 25 ltr DREW CLEAN 3000 25 ltr	Oil & Grease Remover HD 999, 25 ltr Oil & Grease Remover, 25 ltr	Oil & Sludge Remover, 25 ltr
55 10 02	200		-	-	GP Degreaser, 200 ltr or 208 ltr	-	Oil & Grease Remover HD 999, 210 ltr Oil & Grease Remover, 210 ltr	Oil & Sludge Remover, 210 ltr
55 10 05	18	Air Inter-Cooler Cleaner	-	Air Cooler Cleaner, 25 ltr ACC Plus, 25 ltr	Air Cooler Cleaner, 25 ltr	ACC-9, 25 ltr ACC-ME, 25 ltr	Air Cooler Cleaner & Air Cooler Cleaner L.T., 25 ltr ACC NG, 25 ltr	Air Cooler Cleaner, 25 ltr Chemoclean ACC LT, 25 ltr
55 10 06	200		-	-	Air Cooler Cleaner, 200 ltr	-	Air Cooler Cleaner & Air Cooler Cleaner L.T., 210 ltr ACC NG, 210 ltr	Air Cooler Cleaner, 210 ltr Chemoclean ACC LT, 210 ltr
55 10 11	18	Water Soluble Degreaser	-	Aqua-break Px, 25 ltr Enviroclean, 25 ltr	Multicleaner, 25 ltr Ecoclean, 25 ltr GP Enviro, 25 ltr	Enviromate-2000, 25 ltr EDGE, 25 ltr	General Cleaning & Solvent, 30 ltr Alcalcide Liquid, 30 ltr Mariclean DG-25, 30 ltr Liquid Soap, 30 ltr	Fresh Force Kleen, 30 ltr Enviropower HD, 25 ltr Super Red Plus, 30 ltr Holdrite, 30 ltr
55 10 12	200		-	-	Multicleaner, 200 ltr or 208 ltr	-	Mariclean DG - 25, 210 ltr	Fresh Force Kleen, 210 ltr Enviropower HD, 210 ltr Super Red Plus, 210 ltr Holdrite, 210 ltr
55 10 16	18	Alkaline Cleaner	RO Alkaline Cleaner, 25 ltr	Aikleen Liquid, 25 ltr Aquatuff High Foam, 25 ltr H. P. Wash, 25 ltr Ultraclean GO, 25 ltr Aquatuff, 25 ltr Aikleen Safety Liquid, 25 ltr AquaBreak PX, 25 ltr Enviroclean, 25 ltr Multiclean, 25 ltr Fore & Aft, 25 ltr	Tankclean Alkaline, 25 ltr Waterbased Alkaline Foam, 25 ltr Steamclean HPC-NF, 25 ltr	LAC, 25 ltr EDGE 25 ltr	Alcadlean H.D., 30 ltr	Alkasolvent Liquid, 30 ltr Alkasafe Cleaner, 30 ltr Alkasolvent Liquid (POT), 30 ltr Holdrite, 30 ltr
55 10 17	200		-	Aikleen Liquid, 210 ltr Aikleen Safety Liquid, 210 ltr	Tankclean Alkaline, 200 ltr or 208 ltr Waterbased Alkaline Foam, 200 ltr or 208 ltr	LAC, 200 ltr EDGE, 200 ltr	Alcadlean HD, 210 ltr Alcadlean XF, 210 ltr	Alkasolvent Liquid, 210 ltr Alkasafe Cleaner, 210 ltr Holdrite, 210 ltr

(to be continued)

CODE	Ltr	Usage & Application	Wilhelmsen (Norway)		VECOM (The Netherlands)	DREW MARINE (U.S.A.)	MARICHEM (Greece)	CHEMO (Greece)
			(ex NALFLEET)	(ex UNITOR)				
55 10 21	18	Electric Motor Cleaner	-	Electro-solve-E, 25 ltr	Electroclean Slow, 25 ltr Electroclean Fast, 20 ltr Electroclean CF, 25 ltr	Drew Electric 2000, 25 ltr	Electroclean A, 25 ltr Electroclean B, 25 ltr Electroclean Superfast, 25 ltr Electroclean Enviro, 25 ltr Electroclean Eco Quick, 25 ltr	Lectra Kleen, 25 ltr Electroclean 316, 25 ltr Electroclean Fast, 25 ltr Electroclean Non Flammable, 25 ltr
55 10 22	200		-	-	Electroclean CF, 200 ltr or 208 ltr Electroclean Slow, 200 ltr or 208 ltr	-	-	-
55 10 23	25	Ultrasonic Cleaner	-	Ultraclean GO, 25 Ltr	Ultrasonic Cleaner, 25 ltr	-	USC Plus, 30ltr	-
55 10 24	200		-	-	Ultrasonic Cleaner, 200 ltr	-	-	-
55 10 26	18	Carbon Solvent	For Oil Carbon	-	Carbon Remover, 25 ltr Carbonclean LT,25 ltr	Carbon Remover NC, 25 ltr Filterclean, 25 ltr	Carbon Remover, 25 ltr Marichem C.R. – LT., 25 ltr	Carbon Remover Super, 25 ltr Chemoclean Carbon LT, 25 ltr
55 10 27	200		For Hard Carbon	-	Carbon Remover, 25 ltr	Carbon Remover NC, 200 ltr or 208 ltr	-	-
55 10 31	18				Carbon Remover, 25 ltr	SNC-2000, 25ltr	Carbon Remover, 25 ltr	Carbon Remover Super, 25 ltr Chemoclean Carbon LT, 25 ltr
55 10 36	18/ 200	Cleaning Cooling Systems	Neutrality	-	Commissioning Cleaner, 25 ltr	Gp Degreaser, 25 ltr Descaling Liquid Extra, 25 ltr	HDE-777, 25 ltr DREWFRSH 2000 FERROCLEAN	Oil & Grease Remover HD 999, 25 ltr Oil & Grease Remover, 25 ltr
55 10 37	18/ 200		Alkalinity	-	-	Tankclean Alkaline Extra, 25 ltr	-	Alkasolvent Liquid, 30 ltr Alkasolvent Liquid, 210 ltr
55 10 41	18			-	Seaclean Plus, 25 ltr Unipol, 25 ltr Tankeen Swift, 25 ltr	Seaclean Voyage, 25 ltr Tankclean HD Split, 25 ltr	TC No.4, 25 ltr Drew TC Sea, 25 ltr	Tank Cleaner, 25 ltr Tank Cleaner-S, 25 ltr Marichem TTC, 25 ltr Tank Cleaner A, 25 ltr
55 10 42	200	Tank Cleaner	For Fuel Oil Tank	-	Seaclean Plus, 210 ltr Unipol, 210 ltr Tankeen Advance, 210 ltr Tankeen Bright, 190 ltr Tankeen Tar, 210 ltr	Seaclean Voyage, 200 ltr or 208 ltr Tankclean HD Split, 200 ltr	TC No.4, 200 ltr Drew TC Sea, 200 ltr	Tank Cleaner, 210 ltr Tank Cleaner-S, 210 ltr Marichem TTC, 210 ltr Tank Cleaner A, 210 ltr
55 10 46	18	Fuel Oil Additive	Sludge Dispersion & Water Separation	-	FuelPower Conditioner, 25 ltr	FOT Sludge Dispersant, 25 ltr	Amerry 222 Plus, 25 ltr	F.O.T., 25 ltr F.O.T. New Generation, 25 ltr
								Fueltreat 880, 25 ltr Fueltreat 880 Plus, 25 ltr

CODE	Ltr	Usage & Application	Americol (The Netherlands)	MAGNUS (U.S.A.)	Rochem (U.S.A.)	Redox (Singapore)	Marine Care (The Netherlands)
55 10 01	18	Degreaser	Tank Cleaner – Oil & Grease Remover Antol 24, 10 ltr	Degreaser HD, 20 ltr	Degreasol Cold Wash	Oil & Grease Emulsifier, 25 ltr	Careclean Degreaser GP, 25 ltr Careclean Degreaser HD, 25 ltr Careclean Voyage, 25 ltr
55 10 02	200		Tank Cleaner – Oil & Grease Remover Antol 24, 200 ltr	Degreaser HD, 200 ltr	Degreasol Cold Wash	Oil & Grease Emulsifier, 209 ltr	Careclean Degreaser GP, 200 ltr Careclean Degreaser HD, 200 ltr Careclean Voyage, 200 ltr
55 10 05	18	Air Inter-Cooler Cleaner	Air Cooler Cleaner HD, 20 ltr	Air Cooler Cleaner, 20 ltr	ACC	Air Cooler Cleaner, 25 ltr	Careclean ACC, 25 ltr
55 10 06	200		Air Cooler Cleaner HD, 200 ltr	Air Cooler Cleaner, 200 ltr	ACC	Air Cooler Cleaner, 209 ltr	-
55 10 11	18	Water Soluble Degreaser	Aquabreak 10 ltr	Magnaclean EC, 20 ltr	Citrisol Alclean Safety L H.P. Cleaner	Heavy Duty Cleaner, 25 ltr	Careclean Multiclean, 25 ltr Careclean Neutral HCF, 25 ltr Careclean GP Enviro, 25 ltr
55 10 12	200	-	-	-	-	Heavy Duty Cleaner, 209 ltr	Careclean Multiclean, 200 ltr Careclean Neutral HCF, 200 ltr Careclean GP Enviro, 200 ltr

(to be continued)

CODE	Ltr	Usage & Application		Americol (The Netherlands)	MAGNUS (U.S.A.)	Rochem (U.S.A.)	Redox (Singapore)	Marine Care (The Netherlands)
55 10 16	18	Alkaline Cleaner	Alkaline Liquid, 10 ltr	Alkaline Cleaner, 20 ltr	Alclean Liquid	Heavy Duty Cleaner, 25 ltr	Careclean Alkaline, 25 ltr	Careclean Alkaline Extra, 25 ltr
55 10 17	200		-	-	-	Heavy Duty Cleaner, 209 ltr	Careclean Alkaline, 200 ltr	Careclean Alkaline Extra, 200 ltr
55 10 21	18	Electric Motor Cleaner	Electrocleaner SE, 20 ltr	Electroclean M, 20 ltr	-	Motor Cleaner, 25 ltr	Careclean ECS Safe, 25 ltr	Careclean ECS Quick Dry, 25 ltr
55 10 22	200		-	Electroclean M, 200 ltr	-	-	-	-
55 10 23	25	Ultrasonic Cleaner	-	-	-	Ultrasonic Alkaline Cleaner, 25 ltr	-	-
55 10 24	200		-	-	-	Ultrasonic Alkaline Cleaner, 209 ltr	-	-
55 10 26	18	Carbon Solvent	Carbon Remover – Filter Cleaner, 20 ltr	Carbon Remover, 20 ltr	Oil & Grease Emulsifier, 25 ltr	Oil & Grease Emulsifier, 25 ltr	Careclean Carbon, 25 ltr	Careclean Carbon, 25 ltr
55 10 27	200		-	Carbon Remover, 200 ltr	-	Oil & Grease Emulsifier, 209 ltr	-	-
55 10 31	18		For Hard Carbon	Carbon Remover – Filter Cleaner, 20 ltr	Carbon Remover, 20 ltr	Carbon & Varnish Remover, 25 ltr	Carbon & Varnish Remover, 25 ltr	-
55 10 36	18	Cleaning Cooling Systems	Neutrality	Tank Cleaner – Oil & Grease Remover Antol 24, 10 ltr Clean Break Fast Separating Antol FS, 10ltr	Pre Commission CCS, 20 ltr	Clear Break, 25 ltr	Clear Break, 25 ltr	Careclean Degreaser GP, 25 ltr Careclean Degreaser HD, 25 ltr
55 10 37	18		Alkalinity	Tank Cleaner – Oil & Grease Remover Antol 24, 10 ltr	Pre Commission BOC, 20 ltr	-	-	-
55 10 41	18	Tank Cleaner	For Fuel Oil Tank	Tank Cleaner – Oil & Grease Remover Antol 24, 10 ltr	Tank Cleaner, 20 ltr	Heavy Duty Tank Cleaner, 25 ltr	Heavy Duty Tank Cleaner, 25 ltr	Careclean Voyage, 25 ltr Careclean Degreaser HD, 25 ltr
55 10 42	200			Tank Cleaner – Oil & Grease Remover Antol 24, 200 ltr	Tank Cleaner, 200 ltr	Heavy Duty Tank Cleaner, 209 ltr	Heavy Duty Tank Cleaner, 209 ltr	Careclean Voyage, 200 ltr Careclean Degreaser HD, 200 ltr
55 10 46	18	Fuel Oil Additive	Sludge Dispersion & Water Separation	-	Fuel Oil Treatment FT, 20 ltr	Fuel Oil Treatment, 25 ltr	Fuel Oil Treatment, 25 ltr	Caretreat Sludge, 25 ltr

CODE	Ltr	Usage & Application		NIHON YUKA (Japan)	NEOS (Japan)	YCC (Japan)	ICHINEN CHEMICALS (Japan)	KURITA (Japan)
55 10 01	18	Degreaser	Yunisol C, 18 ltr	55 11 01 A, 18 ltr	-	-	KURICLEAN 11, 18 ltr	-
55 10 02	200		Yunisol C, 200 ltr	-	-	-	-	-
55 10 05	18	Air Inter-Cooler Cleaner	Yunisol AC, 18 ltr	55 11 01 A, 18 ltr	-	-	KURICLEAN AC, 18 ltr	-
55 10 06	200		-	One-1, 200 ltr	-	-	-	-
55 10 11	18	Water Soluble Degreaser	Yunisol SS, 18 ltr	55 11 04 M-One 2S, 18 kg Power Challenger R, 18 kg	55 33 36 TCW, 18ltr	KURICLEAN 10/10P, 18 ltr	-	-
55 10 12	200		-	Deck Bright, 200 kg	-	-	-	-
55 10 16	18	Alkaline Cleaner	Yunisol SP, 15 kg	55 11 02 CM200C Powder, 18 kg	-	-	-	Kuripearl, PK-842, 20 kg
55 10 17	200		-	-	-	-	-	-
55 10 21	18	Electric Motor Cleaner	Yunisol MC5, 5 kg	55 11 09 Solvent 550, 18 ltr	-	-	KURICLEAN SUPER, 18 ltr	-
55 10 22	200		-	-	-	-	-	-
55 10 23	25	Ultrasonic Cleaner	Yunisol SH, 18 ltr	55 11 02 CM200C Powder, 18 kg	-	-	-	-
55 10 24	200		-	Reglight D-50L, 200 kg	-	-	-	-
55 10 26	18	Carbon Solvent	For Oil Carbon	Yunisol H, 18 ltr Yunisol SH, 18 ltr	Solvent 13, 18 ltr Solvent 300, 18 ltr	-	KURICLEAN CR, 20 kg	-
55 10 27	200		For Hard Carbon	-	-	-	-	-
55 10 31	18	For Hard Carbon	Yunisol K-48, 16 ltr Hi-Carbon, 18 ltr	55 11 09 Solvent 550 18 ltr	-	-	-	Kuripearl PF-1,10 kg
55 10 36	18	Neutralty	-	-	-	-	KURICLEAN PS1, 18 ltr	-
55 10 37	18	Alkalinity	-	-	-	-	KURICLEAN PS2, 18 ltr	-
55 10 41	18	Tank Cleaner	For Fuel Oil Tank	Yunisol C, 18 ltr	55 11 05 FD-7, 18 ltr 55 11 01 A, 18 ltr	55 33 28 Tank Cleaner, 18 ltr	-	Kuripearl PK-842, 20 kg
55 10 42	200		-	Yunisol C, 200 ltr	-	-	-	-
55 10 46	18	Fuel Oil Additive	Sludge Dispersion & Water Separation Separation	-	-	-	KURITONIC MD-C, 18 ltr	-

CODE	Ltr	Usage & Application	Wilhelmsen (Norway)		VECOM (The Netherlands)	DREW MARINE (U.S.A)	MARICHEM (Greece)	CHEMO (Greece)
			(ex NALFLEET)	(ex UNITOR)				
55 10 47	200	Fuel Oil Additive	Sludge Dispersion & Water Separation	-	FOT Sludge Dispersant, 200 ltr	Amergy-222, 200 ltr	F.O.T., 210 ltr F.O.T. New Generation, 210 ltr	FOT-630, 210 ltr Fueltreat 880, 210 ltr
55 10 51	18		Sludge Dispersion	-	FOT Sludge Dispersant, 25 ltr	Amergy-222, 25 ltr	F.O.T., 25 ltr F.O.T. New Generation, 25 ltr	FOT-630, 25 ltr Fueltreat 880, 25 ltr
55 10 52	200		Combustion Catalytic Type	-	FOT Sludge Dispersant, 200 ltr	Amergy-222, 200 ltr	F.O.T., 210 ltr F.O.T. New Generation, 210 ltr	FOT-630, 210 ltr Fueltreat 880, 210 ltr
55 10 56	18		Combustion Catalytic Type (Prevention of High Temperature Corrosion)	-	FOT Combustion Catalyst, 25 ltr	Amergize, 25 ltr Amergy-1000, 25 ltr	F.O.T. 10, 25 ltr F.O.T. 10 New Generation, 25 ltr	Fueltreat 880, 25 ltr F-83, 25 ltr F-83 Plus, 25 ltr
55 10 57	200		Combustion Catalytic Type (Prevention of High Temperature Corrosion)	-	FOT Combustion Catalyst, 200 ltr	Amergize, 200 ltr Amergy-1000, 200 ltr	F.O.T. 10, 210 ltr F.O.T. 10 New Generation, 210 ltr	Fueltreat 880, 210 ltr F-83, 210 ltr F-83 Plus, 210 ltr
55 10 61	18		Combustion Catalytic Type (Prevention of High Temperature Corrosion)	-	FuelPower Soot Remover, 25 kg	Fuel Treat, 25 ltr Soot Remover Powder, 25 kg Soot Remover Liquid, 25 ltr	Soot Release, 25 kg Drewclean EST, 25 ltr LT Soot Release, 25 kg	F.O.T. C-100, 25 ltr F.O.T. C-100 New Generation, 25 ltr Soot Cleaner, 25 kg, Soot Cleaner Liquid, 30 ltr
55 10 62	200		Lubricity Improver for Gas Oil and Diesel Oil	-	Valve Treat, 200 ltr	-	F.O.T. C-100, 210 ltr F.O.T. C-100 New Generation, 210 ltr	Soot Remover Liquid, 210 ltr F-83 Plus, 210 ltr
55 10 63	18/200		Diesel Oil Anti-mold, Sterilizer	-	FOT LI 4100, 25ltr	-	FOT LS, 25 ltr, FOT ULS, 25 ltr	Fueltreat XLS, 25 ltr Fueltreat XLS, 210 ltr Chemo Lubricity Improver, 25 ltr Chemo Lubricity Improver, 210 ltr
55 10 64	18		Cold Flow Improver for Marine Gas Oil (MGO) and Marine Diesel Oil (MDO)	-	-	-	Fuel Biocontrol, 25 ltr	-
55 10 65	18		Cold Flow Improver for Marine Gas Oil (MGO) and Marine Diesel Oil (MDO)	-	-	FOT Flow Improver, 25 ltr	-	Fuelflow PPR, 25 ltr
55 10 66	18	Emulsion Breaker	-	Coldwash HD, 25 ltr Cleanbreak, 25 ltr	Oil Spill Dispersant Type 1, 25-ltr	EB-70 (Japan only), 25 ltr	Fuelbreak, 25 ltr	Chemobreak, 25 ltr
55 10 67	200		-	-	Oil Spill Dispersant Type 1,200 ltr	-	Fuelbreak, 210 ltr	Chemobreak, 210 ltr
55 10 71	18/200	Demulsifying Accelerator	-	-	FOT Sludge Dispersant, 25 ltr	-	F.O.T., 25 ltr F.O.T. New Generation, 25 ltr	Cleanbreak Plus, 25 ltr Cleanbreak Plus, 210 ltr
55 10 76	18		-	Seacare OSD-2, 25 ltr	OSD Ready to Use, 25 ltr Oil Spill Dispersant Type 1, 25 ltr	OSD/LT, 25 ltr Drewclean EOSD, 25 ltr	Oil Spill Emulsifier, 25 ltr Marichem Oil Spill Dispersant, 30 ltr	Oil Spill Dispersant NF, 25 ltr Seawash No.2, 30 ltr Seawash RTU, 30 ltr
55 10 77	200	Oil Spill Clean up Agent	-	-	OSD Ready to Use, 200 ltr	OSD/LT, 200 ltr Drewclean EOSD, 200 ltr	Oil Spill Emulsifier, 210 ltr Marichem Oil Spill Dispersant, 210 ltr	Oil Spill Dispersant NF, 210 ltr Seawash No.2, 210 ltr
55 10 81	18		Rust Remover	-	Metal Brite, 25 ltr Metal Brite HD, 25 ltr Deckclean NP, 25 ltr	Rust Remover, 25 ltr	Rust Stain Remover, 25 ltr	Rust Blemish Remover, 30 ltr Rust Remover Plus, 30 ltr
55 10 82	18	Scale Remover	-	Descalex, 25 kg Descalex Liquid, 25 ltr Vacuum pipe cleaner, 25 ltr	Descaling Liquid Extra, 25 ltr Descaler Powder NI, 25 kg	SAF-Acid, 25 kg	Descaler Liquid 555, 30 ltr Descaler Powder, 25 kg	Scale Remover Powder, 25 kg Scale Remover Liquid, 30 ltr
55 10 88	18/200		Cement & Lime Remover	-	CargoDescale, 210 ltr	Veclean Acid MP, 25 ltr Cement Remover, 25 ltr Descaling Liquid Extra, 25 ltr Tankclean Alkaline Extra, 25 ltr Cement Remover, 200 ltr or 208 ltr Descaling Liquid Extra, 200 ltr or 208 ltr Tankclean Alkaline Extra, 200 ltr or 208 ltr	-	Cement Remover, 30 ltr Cement Remover, 210 ltr Lime Cleaner, 30 ltr Lime Cleaner, 210 ltr
55 10 89	18/200	Cargo Hold Cleaner for Petroleum Coke	-	CargoClean HD, 25 Ltr	Tankclean Alkaline Extra, 25 ltr Tankclean Alkaline Extra, 200 ltr or 208 ltr	-	Marichem PCS, 30 ltr, Marichem PCS, 210 ltr,	Pet Coke Remover, 30 ltr

CODE	Ltr	Usage & Application	Wilhelmsen (Norway)		VECOM (The Netherlands)	DREW MARINE (U.S.A.)	MARICHEM (Greece)	CHEMO (Greece)
			(ex NALFLEET)	(ex UNITOR)				
55 10 86	18	Cooling Water Treatment	Engine Water Treatment 9-108, 25 ltr	-	Cooltreat NCLT, 25 ltr	Liquidewt, 25 ltr	D.C.W.T. Non Chromate, 30 ltr	CWT-NT, 30 ltr
			Rocor NB Liquid, 25 ltr	-	Antifreeze Coolant, 25 ltr	Dewt-NC 25 kg,	D.C.W.T. Powder, 25 kg	CWT-Special, 30 ltr
55 10 95	200		NALFLEET 2000, 25 ltr	-				
55 10 90	10	Disinfectant for Cooling Water	Mar -71 Biocide 3 x 5 ltr	-			Maricil, 30 ltr	-
55 10 91	18	Boiler Water Treatment	BWT-Liquid Plus, 25 ltr	-	Boiler Treat One Shot, 25 ltr	AGK-100, 25 ltr	B.W.T. New Formula, 30 ltr	BWT-200, 30 ltr
			Hardness Treatment 7208, 25 ltr	-	Hardness Control Liquid, 25 ltr	Prewplex AT, 25 ltr	BWT Powder, 25 kg	Chemophos, 30 ltr
55 10 92	18	Evaporator Treatment	Autotreat, 25 ltr	-	Amerzine, 25 ltr	Drewplex OX, 25 ltr	Chemalk, 30 ltr	Condensamin, 30 ltr
			Condensate Treatment 9-150, 25ltr	-	Alkalinity Control, 25 ltr	Adjunct-B, 25 kg	Alkalinity Control, 30 ltr	Hydrazine, 30 ltr
55 10 93	18	Purifier Detergent	Condensate Control, 25 ltr	-	Condensate Control, 25 ltr	GC, 25 ltr	Boiler Sludge Conditioner, 30 ltr	Catalyzed Liquid
			Oxygen Control, 25 ltr	-	Hydrazide, 25 ltr	SLCC-A, 25 ltr	Marichern CCI, 30 ltr	Sulphite, 30 ltr
55 10 94	18	Marine Organism Adhesion Inhibitor	Oxygen Scavenger 9-002, 25 ltr	-	Liquid Coagulant, 25 ltr	Boiler Treat Combi, 25 ltr	Optitreat, 30 ltr,	Chemoplex AT, 30 ltr
			Oxygen Scavenger 9-002, 25 ltr	-	Boiler Treat Combi, 25 ltr	Condensate Treat, 25 ltr	Marzine Plus, 30 ltr,	Chemoplex OX, 30 ltr

CODE	Ltr	Usage & Application	Americol (The Netherlands)	MAGNUS (U.S.A.)	Rochem (U.S.A.)	Redox (Singapore)	Marine Care (The Netherlands)
55 10 47	200	Sludge Dispersion & Water Separation	-	-	-	Fuel Oil Treatment, 209 ltr	Caretreat Sludge, 200 ltr
55 10 51	18		-	FOT SD, 20 ltr	-	Fuel Oil Treatment, 25 ltr	Caretreat Sludge, 25 ltr
55 10 52	200	Sludge Dispersion	-	FOT SD, 200 ltr	-	Fuel Oil Treatment, 209 ltr	Caretreat Sludge, 200 ltr
55 10 56	18		-	FT Combustion Catalyst, 20 ltr	-	Combustion Improver, 25 ltr	Caretreat Combustion, 25 ltr
55 10 57	200	Combustion Catalytic Type	-	Combustion Catalyst, 200 ltr	-	Combustion Improver, 209 ltr	Caretreat Combustion, 200 ltr
55 10 61	18		-	Vanex FT Soot Remover LQ, 20 ltr	-	Soot Cleaner, 25 ltr	Caretreat Economizer, 25 ltr
55 10 62	200	Fuel Oil Additive (Prevention of High Temperature Corrosion)	-	Vanex FT Soot Remover LQ, 200 ltr	-	Soot Cleaner, 209 ltr	-
55 10 63	18/		-	-	-	Lubricity Improver Complete, 25 ltr	-
55 10 64	18	Diesel Oil Anti-mold, Sterilizer	-	-	-	-	-
55 10 65	18	Cold Flow Improver for Marine Gas Oil (MGO) and Marine Diesel Oil (MDO)	-	-	-	-	-
55 10 66	18	Emulsion Breaker	-	MagnaBreak, 20 ltr	-	Oil & Grease Emulsifier, 25 ltr	Careclean Quick Split, 25 ltr
55 10 67	200		-	MagnaBreak, 200 ltr	-	Oil & Grease Emulsifier, 209 ltr	-
55 10 71	18	Demulsifying Accelerator	-	MagnaDemul, 20 ltr	-	Fuel Oil Treatment, 25 ltr	-

(to be continued)

CODE	Ltr	Usage & Application	Americol (The Netherlands)	MAGNUS (U.S.A.)	Rochem (U.S.A.)	Redox (Singapore)	Marine Care (The Netherlands)
55 10 76	18	Oil Spill Clean up Agent	OSR-SB, 20 ltr	Oil Spill Disperser, 20 ltr Oil Spill Disperser LT, 20 ltr	OSR LT	Oil Spill Dispersant, 25 ltr	Careclean OSD (Enviro), 25 ltr
55 10 77	200		-	Oil Spill Disperser, 200 ltr	OSR LT	Oil Spill Dispersant, 209 ltr	Careclean OSD (Enviro), 200 ltr
55 10 81	18	Rust Remover	Metalbrite & Descaler Liquid Amefix, 10 ltr	Rust Scale Remover, 20 ltr	Descaling Powder Metalbrite	Rust Remover, 25 ltr	Careclean Rust, 25 ltr
55 10 82	18	Scale Remover	Amecid, 10ltr	Safe Descaler PA, 20 kg Safe Descaler LQ, 20 ltr	-	Scale & Oxide Remover, 25 ltr SAF Acid Powder, 25 kg	Careclean F Descalex P, 25 kg
55 10 88	18	Cement & Lime Remover	-	-	-	-	-
55 10 89	18	Cargo Hold Cleaner for Petroleum Coke	-	-	-	-	-
55 10 86	18	Cooling Water Treatment	-	NCL Engine Water Treatment, 20 ltr	-	Cooling Water Treatment, 25 ltr	Caretreat 2 Diesel, 25 ltr
55 10 95	200		-	-	-	Cooling Water Treatment, 209 ltr	-
55 10 90	10	Disinfectant for Cooling Water	-	-	-	-	-
55 10 91	18	Boiler Water Treatment	-	LPBWT-Liquid, 20 ltr Hardness Control, 20 kg Alkalinity Control, 20 ltr Oxytreat Control, 20 ltr Condensate CC, 20 ltr Liquid Coagulant, 20 ltr	-	Boiler Water Treatment, 25 ltr	Caretreat 3 Boiler, 25 ltr Caretreat 4 Condensate, 25 ltr
55 10 92	18	Evaporator Treatment	-	Evaporator treat, 20 ltr	-	Evaporator Treatment, 25 ltr	Caretreat 1 Evaporator, 25 ltr
55 10 93	18	Purifier Detergent	-	-	-	-	-
55 10 94	18	Marine Organism Adhesion Inhibitor	-	-	-	-	-

CODE	Ltr	Usage & Application	NIHON YUKA (Japan)	NEOS (Japan)	YCC (Japan)	ICHINEN CHEMICALS (Japan)	KURITA (Japan)
55 10 47	200	Sludge Dispersion & Water Separation	-	-	-	KURITONIC MD-C, 200 ltr	-
55 10 51	18		For HSFO: Yunic 555D, 18 ltr For VLSFO: Yunic 800 Eco, 18 ltr	-	-	TAICRUSH VL-20, 18 ltr TAICRUSH A-38, 18 ltr	-
55 10 52	200	Sludge Dispersion	For HSFO:Yunic 555D, 200 ltr For VLSFO: Yunic 800 Eco, 200 ltr	-	-	TAICRUSH VL-20, 200 ltr TAICRUSH A-38, 200 ltr	-
55 10 56	18	Combustion Catalytic Type	Econofree A, 18 ltr	-	-	TAICRUSH LC, 18 ltr	-
55 10 57	200		Econofree A, 200 ltr	-	-	TAICRUSH LC, 200 ltr	-
55 10 61	18	Fuel Oil Additive (Prevention of High Temperature Corrosion)	Yunic 600S-II, 18ltr	-	-	KURITONIC HICON 3C, 18 ltr	-
55 10 62	200		Yunic 600S-II, 200 ltr	-	-	KURITONIC HICON 3C, 200 ltr	-
55 10 63	18/200	Lubricity Improver for Gas Oil and Diesel Oil	Yunic 750LS-F, 18 ltr, 200 ltr	-	-	LUB-UP HS, 18 ltr	-
55 10 64	18/200	Diesel Oil Anti-mold, Sterilizer	Destol F-II, 18ltr, 200 ltr	-	-	KURITONIC A-5, 18 ltr	-
55 10 65	18/200	Cold flow Improver for Marine Gas Oil (MGO) and Marine Diesel Oil (MDO)	Wax Breaker, 18ltr, 200 ltr	-	-	CARRYOL KA-241, 16 kg	-
55 10 66	18	Emulsion Breaker	-	-	-	KURITONIC EB, 18 ltr	-
55 10 67	200		-	-	-	KURITONIC EB, 200 ltr KURITONIC TCA, 200 ltr	-
55 10 71	18	Demulsifying Accelerator	-	-	-	-	-

(to be continued)

CODE	Ltr	Usage & Application	NIHON YUKA (Japan)	NEOS (Japan)	YCC (Japan)	ICHINEN CHEMICALS (Japan)	KURITA (Japan)
55 10 76	18	Oil Spill Clean up Agent	Yunisol FL(100), 18ltr Yunisol Self-Mixing S-7, 18 ltr	55 11 25 AB3000N, 18 ltr Self-Mixing S-7, 18 ltr D-1128, 18 ltr	55 33 32 Blue Clean, 18 ltr	MALECLEAN 505EX, 18 ltr	-
55 10 77	200		Yunisol FL(100), 200 ltr Yunisol Self-Mixing S-7, 200 ltr	55 11 26 AB3000N, 200 ltr	Blue Clean, 200 ltr	-	-
55 10 81	18	Rust Remover	Yunisol P, 18 ltr	55 11 28 CM-305C, 20 kg PC-400, 25 kg PC-200, 25 kg	55 33 23 Metal Clean, 18 ltr	-	Kuriparl S-232, 20 kg
55 10 82	18/ 200	Scale Remover	Yunisol X, 18 ltr Yunisol SR, 18 ltr, 200 ltr	55 11 29 CM305C, 20 kg	-	KURICLEAN PS-3, 18 ltr TAISLIME C-10, 20 kg	Kuridine SP, 20 kg
55 10 88	18	Cement & Lime Remover	-	-	-	-	-
55 10 89	18	Cargo Hold Cleaner For Petroleum Coke	-	-	-	KLINHOLD SR, 20 kg	-
55 10 86	18	Cooling Water Treatment	Yuniprot PC-250L, 22 kg	55 11 32 PN-106S, 10 ltr	-	HI-MOL AM-5, 10 kg HI-MOL L-10, 20 kg	Polycrin I-175, 20 kg Polycrin A-491, 10 kg
55 10 95	200		-	-	-	-	-
55 10 90	10	Disinfectant for Cooling Water	Germicidal Agent for YUNIPROT, 1ltr	-	-	TAISLIME MT, 10 kg	-
55 10 91	18	Boiler Water Treatment	Yunicorn RS-5, 20 kg Yunicorn RS-40H, 20 kg	-	-	-	Kuriborn 304, 10 kg Kalgen 300s, 12 kg Kalgen 400s, 10 kg Hikalgen 360s, 10 kg Oxynon A702/H171, 18 kg Kurinpower WZ-406, 12 kg
55 10 92	18	Evaporator Treatment	Yunipoly EV-100, 20 ltr	-	-	TAISLIME SP-10, 20 kg	Kurifloat M-305, 20 kg
55 10 93	18	Purifier Detergent	LO Purifier Disc clean, 18 ltr FO Purifier Disc clean, 16 ltr	-	-	KURICLEAN DC-100, 18 ltr (Neutral type) KURICLEAN DCR, 18 ltr (Acid type)	-
55 10 94	18	Marine Organism Adhesion Inhibitor	Yunishell (Chemical & System)	-	-	-	-

## Ferryl Marine Chemicals

Productos químicos navales Ferryl

フェリル船用化学薬品 菲利 (Ferryl) 海洋化工

A range of high-quality maintenance chemicals designed for marine use. For cabin, deck and engine departments.



Unit Per Drm/Btl./Can

CODE	Product No./Unit	Application
45 04 23	Ferrycid Rustremover 25 ltr/drum	Efficient removal of light and heavy rust on steel, cleaning of (wooden) decks, rust stain removal on painted surfaces, removal of limescale and cement.
45 04 24	Ferryl Cleaning Fluid Oil & Grease Remover 25 ltr/drum	Water-soluble, emulsifying, solvent-based degreaser. Removes light and heavy deposits of oil and grease on decks, engine parts, oil preheaters, tools.

45 04 26 32	Ferryl Fermaid Alkaline Cleaning Liquid 25 ltr/drum 1 ltr/bottle	Alkaline cleaning liquid concentrate for general cleaning and light degreasing of decks, containers / chambers, refrigerators, fishing vessels.
45 04 28 27	Ferryl Electroclean 450 ml/spray can 25 ltr/drum	Safe cleaning liquid with a high flash point and quick evaporation for cleaning of electrical equipment and machine parts.
45 04 29	Ferryl Cabin Clean General Cleaning Liquid 25 ltr/drum	Cleaning liquid concentrate for general cleaning of cabins, mess rooms, bathrooms, sanitary installations.
45 04 30 31	Ferryl Airrefreshment Bad Odour Neutraliser 500 ml/spray bottle 25 ltr/drum	Chemically neutralises bacteria in the air, removing bad odour, leaving fresh scent. For cabins, bathrooms, cargo holds, freezers, fishing vessels.

Name of Mfr.: Ferryl Sales Limited.

## Hold Cleaning Solutions

Productos para limpieza de bodegas de barco

カーゴホールドクリーニング製品 货舱清洁产品

## Hold Barrier (Prior to loading)

For best protection of the cargo hold bulkheads. It is a unique blend of natural ingredients and film stability improvers, which

(to be continued)

can be easily applied by ship's crew prior to loading. It effectively prevents residue adhesion, stains and footprints of cargoes adhering to the surfaces of cargo holds and/or causing corrosion and are difficult to clean.

#### Benefits;

- More effective than limewash and much easier to remove.
- Protects metal against corrosive cargo and paint against cargo penetration.
- Prevents the deterioration of cargo hold condition.
- Not harmful to cargoes, coatings and the environment.

Unit Per Can			
CODE	Description	Weight per Can	Remarks
55 16 01	Hold Barrier (#507001)	210 ltr	-
55 16 02	Hold Barrier XR (#507002)	210 ltr	Extra resistant formulation for extra demanding cargoes.
55 16 03	Hold Barrier Concentrate (#507004)	210 ltr	Concentrated form of Hold Barrier and Hold Barrier XR.

Name of Mfr.: Chemo Marine Chemicals

### Hold Cleaning Solutions (After discharging)

Cost effective, non-flammable, water based, heavy duty cleaners containing special surfactants, detergents and builders, for effectively removing all types of cargo stains and residues, after cargo discharge, while minimizing coating discolouration.

### Application Table

Cargo	Product Name	Cleaning Procedure
Coal	Holdbrite XF	Remove all residues from the cargo hold. Pre-wash the cargo hold with sea or fresh water and let it dry. Apply the product. Use suitable spraying equipment and dosages varying from 5 to 20% in fresh water, depending on the contamination. Allow solution to penetrate soil for 10-60 minutes and then wash off thoroughly with high pressure water, preferably hot. Always wash off before chemicals dry on the surface. Products may be used undiluted for hand cleaning.
Pet coke	Pet Coke Remover	
Sulphur	Holdbrite XF	
Concentrates/ Specific ore residues	Holdbrite XF	
Miscellaneous feedstock	Holdbrite XF	
Cement/Cement clinkers	Cement Remover Super	
Bauxite/Iron ore/ Iron ore pellets	Bauxite Remover	
Limestone/ Rust stains	Lime Out	

Unit Per Can			
CODE	Product's Name	Weight per Can	Remarks
55 16 11 12	Holdbrite XF #501202	25 ltr 210 ltr	Heavy duty alkaline cleaner with extra foaming effect.
55 16 13 14	Pet Coke Remover #502012	25 ltr 210 ltr	Effective liquid product for pet coke removal.
55 16 15 16	Cement Remover Super #502405	25 ltr 210 ltr	Powerful cement cleaner.
55 16 17 18	Chemo Bauxide Remover #502415	25 ltr 210 ltr	Liquid acid for the effective removal of bauxite residues.
55 16 19 20	Lime Out #502417	25 ltr 210 ltr	Effective removal of limestone.

Name of Mfr.: Chemo Marine Chemicals

### Air Fresh Liquids for Cargo Hold

Líquidos ambientadores para la bodega de carga

カーゴホールド用消臭液 货舱空气清新剂

Water-based liquid to mask unpleasant smells in cargo hold, tanks and domestic areas. The liquid is based on perfumed oils in water and used if the smell of the previous cargo (fish oil or turpentine etc.) is perceptible after tank cleaning. It is recommended that the cause of the smell is determined before applying the product. If bad cleaning causes the smell, the tank should be cleaned again, because application of the product into an unclean tank may cause a surveyor to reject.

Safe to use on most common metals and coatings.



#### Directions for use:

Spray in a 10% dilution with water. Allow the product to evaporate for a reasonable period. It is also possible to dose 0.1–1% of the product to the last rinsing water after cleaning the tank. After treatment thoroughly ventilate the tank before entering.

55 16 35	Air Fresh Liquid for Cargo Hold, 5 ltr	Can
55 16 36	Air Fresh Liquid for Cargo Hold, 25 ltr	Can

## Conversion Table

### Mass (Weight)

	g	kg	t	lb	oz
g	1	$1 \times 10^{-3}$	$1 \times 10^{-6}$	$2.204 \times 10^{-3}$	0.0352
kg	$1 \times 10^3$	1	$1 \times 10^{-3}$	2.204	35.27
t	$1 \times 10^6$	$1 \times 10^3$	1	2204	35270
lb	453.6	0.4536	$4.536 \times 10^{-4}$	1	16
oz	28.35	0.02835	$2.835 \times 10^{-5}$	1/16	1

### Volume

	cm <sup>3</sup> (cc or ml)	m <sup>3</sup>	l	in <sup>3</sup>	qt	pt	fl-oz	ft <sup>3</sup>	gal
cm <sup>3</sup> (cc or ml)	1	0.000001	0.001	0.061	0.00088	0.0018	0.035	-	0.00022
m <sup>3</sup>	1,000,000	1	1,000	61,024	880	1,760	35,195	35.314	220
l	1,000	0.001	1	61.024	0.880	1.760	35.195	0.035	0.220
in <sup>3</sup>	16.387	0.000016	0.016	1	0.014	0.029	0.577	0.00058	0.0036
qt	1,136.52	0.0011	1.137	69.355	1	2	40	0.033	0.25
pt	568	0.00057	0.568	34.677	0.5	1	20	0.017	0.125
fl-oz	28.413	0.000028	0.028	1.734	0.025	0.05	1	0.0008	0.00625
ft <sup>3</sup>	28,316	0.0283	28.316	1,728	29.922	59.844	958	1	7,481
gal	4,546	0.0045	4.546	277	4	8	160	0.134	1