

RX MARINE INTERNATIONAL



Tank Cleaning Chemical Manual

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TANK CLEANING CHEMICALS

By RX Marine International

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TANK CLEANING CHEMICALS

By RX Marine International

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Part/Order no:	Packing
RXSOL-20-2005-020	20 Ltr
RXSOL-20-2005-025	25 Ltr
RXSOL-20-2005-210	210 Ltr

Product Description

RXSOL - 20 - 2005 - HD is a superior Heavy Duty and highly concentrated Alkaline Cleaner, containing specially selected detergents and powerful long chain organic syndet, specific salts with surfactants & wetting agents. It is low toxic product with an exceptional solvency power on soil & oily matter & having good foaming qualities. It is free from Hydrocarbon solvents, Biodegradable and minimizes the extreme hazards to personnel in handling materials. It is suitable for TANK CLEANING used For cargo hold cleaning after coal and pet coke exceptional solvency power on soil & oily matter & having good foaming qualities. It is free from Hydrocarbon solvents, Biodegradable and minimizes the extreme hazards to personnel in handling materials. It is suitable for TANK CLEANING used for cargo hold cleaning after coal and pet coke

Using Procedure :

First of all flush the system with cold water to prevent evaporation rates and polymerization then the most economical method of using RXSOL-20-2005-HD is by direct injection followed by recirculation washing, using tank cleaning machines.

Spraying method :

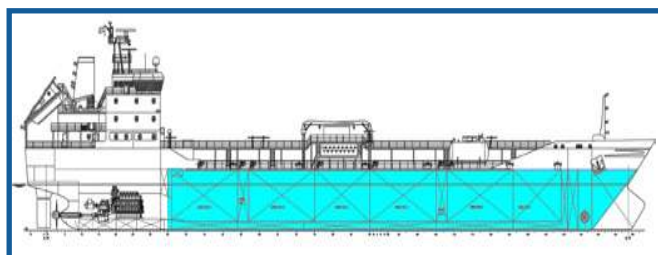
Directly spray on the contaminated area and let it act for 5-10 minutes. Then clean the system under high pressure. A solution of 5-10% in fresh water can be used for this purpose also, and may be sprayed on and hosed off using high pressure. Circulation method : Cleaning the oil side of tank can be cleaned by circulating through with RXSOL-20-2005-HD

Rock and Roll method :

Fill the tank with water (fresh or sea) up to 25 - 30% of its volume then 5-20% (Depend on contamination) RXSOL-20-2005-HD will add, let it stand for approximately 12-24 hours. Then fill with more water to 90% of the tank's capacity. This way the tank will be cleaned by natural agitation due to wave motion. Let for a few days, then drain the tank and ballast-deballast 2-3 times in order to achieve complete and thorough rinse off

Product Properties :

Appearance.	Pale clear liquid
Density.	In g/cm ³ at 20°C: Spec. Gravity : 1.035
Compatibility.	-
Metal.	No known effect.
Rubber.	No known effect.
PH	Alkaline (12.7 - 13)
Flash point	Not Applicable
Solubility.	100% soluble in water
Packaging.	Size (in Litres)
pH : 12.7	-
Colour	brownish liquid



Part/Order no:	Packing
RXSOL-20-2004-020	20 Ltr
RXSOL-20-2004-025	25 Ltr
RXSOL-20-2004-210	210 Ltr

Product Description

RXSOL-20-2004 is a mixture of emulsifiers, surfactants, corrosion inhibitors and rust preventives, being noncaustic very gentle on hand & ideal for cleaning walls wood works, metal and other areas. Prevents the corrosion of metal such as zinc, aluminium, copper, brass and tin. Specialized for cargo tank cleaning and gas freeing of tanks. 

Application

RXSOL-20-2004-210 is designed to clean animal/ vegetables oils, hydrocarbons, Removes dirt, light carbonized grease, lube oil, heavy oils etc. 

Using Procedure

1st of all by stripping suction removes all possible oil (greasy materials). To prevent evaporation of lighter fraction oil flush the system with cold water. May be brushed on, sprayed (Hand spray/Direct injection) recirculate the system with RXSOL-20-2004-210 Solution. 

Spraying method

Directly spray on the contaminated area and let it act for 5 -10 minutes. Then clean the system under high pressure. A solution of 5-10% in fresh water can be used for this purpose also, and may be sprayed on and hosed off using high pressure.

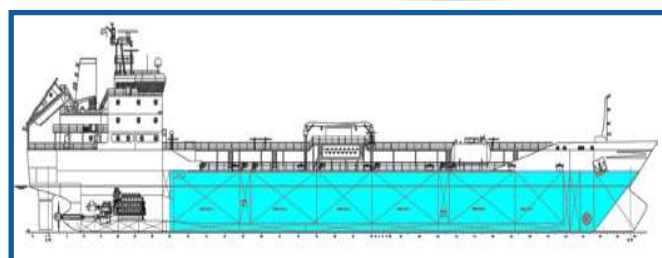
Circulation method: Cleaning the oil side of tank can be cleaned by circulating through with RXSOL-20-2005-HD. 

Dose

Refer to technical datasheet. 

Note

RXSOL-20-2004 has a deodourizing nature.



Part/Order no:	Packing
RXSOL-16-3003-020	20 Ltr
RXSOL-16-3003-025	25 Ltr
RXSOL-16-3003-210	210 Ltr

Product Description

RXSOL-16-3003 Mixture of Emulsifier, new technology surfactants(With high solvency and emulsification effect),Corrosion inhibitors, Rust preventive. due to free from caustic and Hydrocarbon very gentle on hands & ideal for cleaning Walls Wood works, Metals and all areas. Acts as superior quality cleaner / degreaser . 

Fields

RXSOL-16-3003-210 containing corrosion inhibitors to prevent the corrosion of metals such as Aluminium, Copper, Brass and Tin. RXSOL-16-3003-210 is designed to clean Animal / Vegetables oils, Fats, Hydrocarbon removes Dirt, Ink, Carbonized grease, Oil, Heavy oils etc. Specialized for all types of cleaning and degreasing. may be applied by brush, handspray or used in ultrasonic cleaning tanks, immersion soak tanks and high and low pressure spray appliances. May be used neat or diluted by up to 50 parts of water according to the amount and type of soil to be Removed. 

Tank Cleaning

(Cargo tank cleaning after mineral, animal, vegetable and fish oil.) 

Method of Application and Doses

1st of all by stripping suction removes all possible oil (greasy materials). To prevent evaporation of lighter fraction oil flush the system with cold water. May be brushed on, sprayed (Hand spray/Direct injection) recirculate the system with RXSOL-16-3003 Solution.

- Cleaning with washing machines. Dose rate: 0.3-5 ltr per ton wash water (0.03-0.5%).
- Cleaning with recirculation method. Dose rate: 0.5-10 ltr per ton wash water, (0.05-1%).
- Spot cleaning. Hand sprayed neat or diluted up to 1-10 parts water and left for about 15-20 minutes before washing off. 

RXSOL-20-2004 has a deodorizing nature and is not flammable.

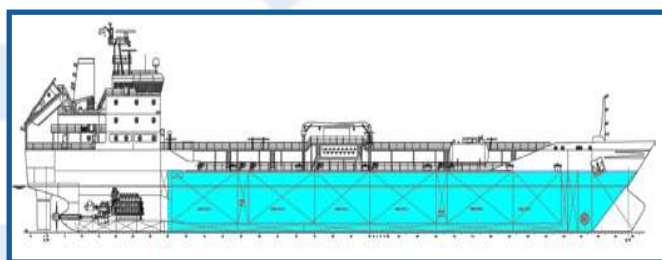
DOSAGE

Nature Of Residue	Hand Spray	Direct Injection	Circulation
Veg.Oil (Drying /Non Drying Fish Oil, Alcohol, Acids, Amines)	1-10%	0.03-0.5%	0.05-0.7 %
ORGANIC MATERIAL (HYDROCARBON)	NA	0.05-0.5%	0.05-0.7%

RXSOL-16-3003-210 has numerous general cleaning applications including the removal of greases, oil, sludge, carbon deposits, general dirt and grime. Can be used as engine room cleaner. Suitable for cargo tank cleaning. Can be used as accommodation cleaner for bulkheads, decks, toilets. Suitable for cleaning of soiled textiles as rugs, covers, mats, overalls, etc. Effectively cleans glass fibre boats, hulls and painted surfaces. 

Product Properties

Appearance.	Pale yellow
Odour / Solubility.	NONE / INFINITE INWATER. liquid
Density.	NIn g/cm3 at 15°C: 1.0
Compatibility.	
Metal.	May attack Zinc at concentrated solutions +/- 0.05 Liquid.
Rubber.	No known effect.
pH Neat.	12.
Solubility.	100% soluble in water
Packaging.	Order No: RXSOL-16-3003-210.



Characteristics

- Compatible with oily water separators.
- Releasing the oil phase for reclamation. Suitable for all types of floors. Deodorizing nature.

Eliminates the need to buy & stock duplicate products due to its effectiveness.

An economic highly concentrated product.

Also used for gas and hydrocarbon freeing oftanks. Free from caustic & hydrocarbon ,Non flammable. Water based Biodegradable. Safe to.

Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate. 

Part/Order no:	Packing
RXSOL-19-1204-020	20 Ltr
RXSOL-19-1204-025	25 Ltr
RXSOL-19-1204-210	210 Ltr

- Solvent for agricultural pesticides. Very Effective and multi Tank Cleaning. 

Dose

Refer to technical datasheet. 

Product Description

RXSOL-19-1204 A fast-evaporating glycol ether with an excellent balance of hydrophilic and hydrophobic character; excellent active solvency and coupling properties. It is a very versatile solvent product with a good balance of many different properties. With a nearly equal balance of hydrophobic and hydrophilic character, RXSOL-19-1204-210 provides excellent performance in coatings, cleaners, and many other types of products. It is one of our fastest selling Products which is frequently used for Double Bottom Tank Cleaning Purpose. RXSOL-19-1204-210 is compatible with a wide range of resin types, and it also offers 100% water solubility. 

Spraying

The tank should be sprayed with BSOLV, and then left for 45 minutes. After 45 minutes the tank should be butterworthed warm 50-60 °C for 30 minutes, followed by a 4 hour hot wash 80 – 85 °C, after which fresh water rinse and dry the tank. All safety precautions must be taken whenever handling this product. 

Application

- Active solvent for solvent-based coatings.
- Coalescent for industrial water-based coatings.
- Coupling agent for architectural water-borne coatings.
- Coupling agent and solvent in household and industrial cleaners, rust removers, hard surface cleaners, and disinfectants.
- Primary solvent in solvent-based silk screen printing inks.
- Coupling agent for resins and dyes in water-based

Re-Circulation

Sufficient BSOLV should be filled into the tank so that the cargo pump and butterworth machines function properly. Circulations should be carried out for at least 4 and ideally 6 hours and all areas of the tanks must be rinsed. The tank MUST be at least cleaned to a good Water White standard and must be dry, before filling the BSOLV. If another tank is to be circulated, then the product can be directly transferred. If not, it can be returned to drums for further use at a later date. Following the circulations, the same washing procedure is carried out as outlined above in the spraying section. 

Features

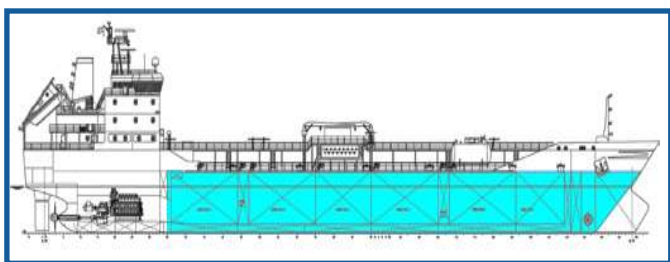
- Powerful solvency.
- Coupling ability.
- Coalescing ability.
- Moderate evaporation rate.
- High dilution ratio.
- Wide range of applications. 

Private Labeling

Private labeling services offer you the opportunity of having our high quality, manufactured products branded as your own. All RX-SOL products can be re-branded with your company name, logo, contact details, and more included on each consignment and, if required delivered direct to a site of your choice with your own delivery paperwork.

Private labeling is a great way to build brand loyalty with your customers. RX MARINE offers full-color private labeling on a wide variety of products to all our customers... and with no minimum quantity. Whether you need 1 or 100, we will place your company name, logo and contact information on the finished product.

We offer several styles and sizes of labels and packaging. From standard labels with one color to glossy, waterproof labels with full-color printing. We will work with you in choosing the proper label depending on the product and your specific needs. 



Chembreak Emulsion Breaker

Category > Tank Cleaning Manual

Part/Order no:	Packing
RXSOL-20-2006-020	20 Ltr
RXSOL-20-2006-025	25 Ltr
RXSOL-20-2006-210	210 Ltr

Product Description

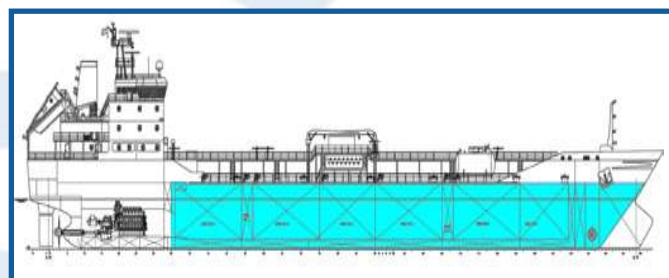
RXSOL-20-2006- has the unique feature that dissociates slop to separate oil and water. This product is formulated to meet the ever changing regulations for the treatment of tank cleaning waste water after using petroleum based solvents, and Bunker "C" cleaners. 

Application

Ideally suited for slop tanks. Also recommended for local cleaning & degreasing of engine rooms, bilges & tank tops. Low toxicity, non - corrosive. Highly effective, economical solvent cleaner. 

Dose

For light contamination dilute with water in the ratio 1:20. For medium contamination dilute with a petrosolvent. And for heavy contamination concentrated RXSOL-20-2006-0210 is suggested. 



Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate. 

Part/Order no:	Packing
RXSOL-20-2003-020	20 Ltr
RXSOL-20-2003-025	25 Ltr
RXSOL-20-2003-210	210 Ltr

Product Description

RXSOL-20-2003-CW is a heavy duty highly concentrated and economical emulsifier. Safe to use on most metal surfaces, painted and coated surfaces and also used as a multipurpose degreaser in extremely hard cleaning conditions. 

SPRAY METHOD

Mix 1 part of RXSOL-20-2003-CW with 2 -10 parts of water /GAS-OIL (For heavy oil,greasy surface use directly) Spray directly on the entire surface to be cleaned. This can be achieved by Hand spray / mechanical spray pump. Immediately after 2 -5 minutes of spray the RXSOL-20-2003-CW starts its function. The Dirt, oil grease etc will loosen. 5 to 6 minutes after spraying start rinsing the system with water (High pressure recommended). Dirt and mud starts vanishing with cleaning media and water. 

Immersion Method

Application in immersion process with or without ultrasonic support, manual wiping.

Re - circulation Method

RXSOL-20-2003-CW is also used in conjunction with alkaline degreasing bath at 2-10% (v/v) concentration for better and quick degreasing action. Either the bath is heated to be 70°C or the solution can be stirred or air agitated.

FINALLY RINSE THE SYSTEM WITH FRESH WATER. 

Product Properties

Appearance.	Clear Appearance amber brown liquid clear. liquid
Density	In g/cm ³ at 15°C: 0.95b
Flash Point	Above 70°C (on dilution with water more than 90°C)
Compatibility.	
Metal.	No known effect
Rubber.	May swell
Synthetic rubber	May swell
Solubility	100% soluble in water
Packaging.	Order No: RXSOL-20-2003-CW Size (in litres): 25,/30, /210 Size Ltrs : 25 , 210

Application

Ready to use for tank cleaning or general degreasing. Complete removal of dirt, oil, carbonized grease, heavy oil, gum, vegetable oil, Lube oil, soot, asphalt, paraffine, carbon stains etc. Gives clear finish to the surface. Highly effective for the removal of crude and other high melting point stains. 

Advantages

RXSOL-20-2003-CW is easily soluble in water. Action is quite fast even at low temperature which gives advantages of cleaning under operation and avoid shut down and down time. Non corrosive to most of the metals / plastics. Gives clear finish to the surface. Lower cost due to high concentration. 

Fields

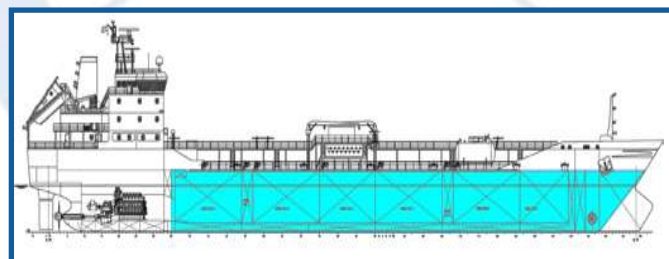
Treated for the really tough daily cleaning problems faced in the proper Maintenance of Industrial and Institutional physical plants. Can be used as a stripper for all types of waxes and finishes and as a Degreaser where regular cleaners will not perform. May be brushed on, sprayed or used in a dip tank. Excellent for use as a wash for fuel tankers & as a liquid steam jenny compound. 

Dose

Refer to technical datasheet. 

PACKAGING

25 liters, 210 liters. 



Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. 

Part/Order no:	Packing
RXSOL-20-2028-020	20 Ltr
RXSOL-20-2028-025	25 Ltr
RXSOL-20-2028-210	210 Ltr

Injection Method

Not applicable. 

Product Description

RXSOL-20-2028 is a very strong cleaner, which can be used to soften up / remove baked on drying oils and used after animal and vegetable oils, fish oils, tall oils, tug oils etc . It is low toxic product with an exceptional solvency power on soil & oily matter. It is free from hydrocarbon solvents, Biodegradable minimizes the extreme hazards to personnel in handling materials. Suitable for cleaning of Lube oils Gas oil Kerosene Mineral oil Products. Phthalates paraffin's vegetable oils Odour intensive products. 

Using-Procedure

First of all flush the system with cold water to prevent evaporation rates and polymerization then the most economical method of using RXSOL-20-2028 is by direct injection followed by recirculation washing, using tank cleaning machines. 

Spraying Method:

Using CTC as delivered in drums, spray onto areas where residue remains following rough washing leave for 10-45 minutes (but do not allow to dry), then butterworth at maximum pressure and warm water 60oC for at least 3 hours, checking that there is no foam remaining in the final stages. Inspects tanks(s) and if desired result has been achieved fresh water rinse and dry.

Make sure to take all safety precautions are followed when handling / spraying CTC. 

Re- Circulation Method

Fill tank with fresh water and heat up to warm 50oC . IF a drop line is available on the tank line system, then start to circulate the water and add the required amount of Caustic flakes and CTC to make a 2.5% solution. A stronger solution can be made, but be advised that too much Caustic and too high temperature will result in white powder all over the tank. Under normal circumstances, between 2.5% and 4.5% will be sufficient strength. If there is no drop line, then lower butterworth hoses into the tank from the pump stack header without machines attached and circulate through these hoses while you fill the solution material.

Use a strainer at the pump stack when circulating any solution.** Tank Lining– Stainless / Epoxy / Phenolic. 

Dose

Necessary concentration in water only 0,2 to 0,4 %.

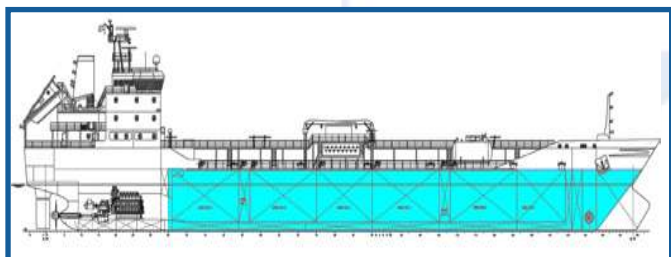
Note:.

- Removes grease, oil, carbon deposits, soil and grime.
- Keeps loosened deposits in suspension preventing re-deposition.
- Low toxic. , Non-flammable.
- Free from hydrocarbon solvents.

- Effective and economical in use , Water-based cleaner.
- RXSOL-20-2028-210 has numerous cleaning applications including removal of greases, waxes, oil, sludge, soot, carbon deposits and general dirt and grime.
- Non-corrosive to ferrous metals.Suitable for all Tank-coatings.
- Can be used for gas and hydrocarbon freeing of tanks.
- Can be used for deodorizing. 

Note

Acts as an acid-neutralizing agent also. 



Private Labeling

Private labeling services offer you the opportunity of having our high quality, manufactured products branded as your own. All RX-SOL products can be re-branded with your company name, logo, contact details, and more included on each consignment and, if required delivered direct to a site of your choice with your own delivery paperwork.

Private labeling is a great way to build brand loyalty with your customers. RX MARINE offers full-color private labeling on a wide variety of products to all our customers... and with no minimum quantity. Whether you need 1 or 100, we will place your company name, logo and contact information on the finished product.

We offer several styles and sizes of labels and packaging. From standard labels with one color to glossy, waterproof labels with full-color printing. We will work with you in choosing the proper label depending on the product and your specific needs. 



Part/Order no:	Packing
RXSOL-20-2203-020	20 Ltr
RXSOL-20-2203-025	25 Ltr
RXSOL-20-2203-210	210 Ltr

Technical Specifications

Product : D I Water. Tech Grade

Mol. Formula	H2O
M.W	18.015
Conductivity	< 2.0 IS/CM
PH	6.00 – 7.50
Total Hardness	< 0.2 mg/l as CaCo3
Chloride	< 0.1 mg/l as Cl
Total Alkalinity	< 0.1 mg/l as CaCo3
Iron	< 0.02 mg/l as Fe
Copper	< 0.03 mg/l as Cu Size Ltrs : 25 , 210
Nickel	< 0.01 mg/l as Ni
Oxygen	< 0.01 mg/as O2
Silica	< 0.005 mg/l as
Substances reducing Permanganate	0.00004

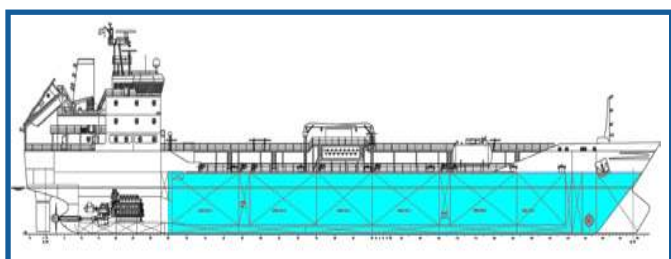


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Part/Order no:	Packing
RXSOL-20-2018-020	20 Ltr
RXSOL-20-2018-025	25 Ltr
RXSOL-20-2018-210	210 Ltr

Product Description

RXSOL ORG DICHLOR Mixture of Emulsifier, new technology alkaline REDUCING agent , Corrosion inhibitors, Rust preventive . Acts as superior quality cleaner / degreaser with high penetrating abilities to remove color from cargo tank surfaces. It is particularly effective when loading color sensitive cargoes such as methanol, isopropyl alcohol, styrene monomer, and ethylene glycol "fiber grade."

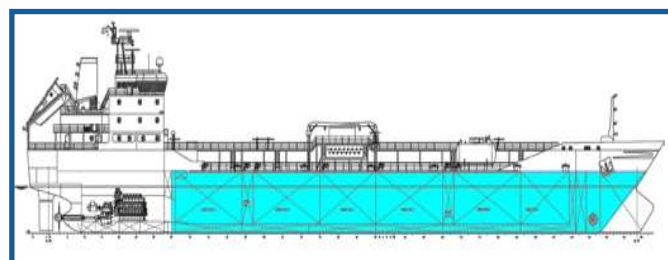
Application

These products become more aggressive with temperature increase, and should not be allowed to dry on tank walls or stored in cargo tanks as cleaning solution or slops.

Bleach will –
Remove odors.
Remove color.
Improve permanganate time. 

Spraying

Following rough washing to a good Water White or better, apply dilute RXSOL ORG DICHLOR to 1 – 3% strength. First wet the tank surface (spray with DI water), then spray all over with Bleach, wait 30 minute (but do not allow to dry) and then rinse very well with DI water, including the tank top towards the sump. To ensure that you have covered all areas properly, this process should be carried out at least twice with good DI water. 



Injection

No. 

Re- circulation

Following rough washing to a good Water White standard or better, apply dilute RXSOL ORG DICHLOR to 1-3% strength. Mix sufficient Bleach with fresh water in the tank and heat this mixture to 40 – 50 0 C, circulate through the drop line if fitted and then circulate through butterworth machine for 3 hours. After re-circulation immediately warm butterworth to (500 C) the tank for 3 hours at maximum pressure, increase the water temperature to 80-85 o C after 45 minutes. Check (by smell) that there is no Bleach remaining, then fresh water rinse and dry.

When there are a number of tanks requiring recirculation, it may be significantly more efficient to make up a large batch or number of batches that can be transferred on between tanks as required. 

Technical Specifications

Use a strainer at the pump stack when circulating any solution.

Tank Lining – Stainless / Zinc / Epoxy / Phenolic (Extreme care must be taken if product other than bleach substitute is to be used in any coated space). 

Part/Order no:	Packing
RXSOL-16-3014-020	20 Ltr
RXSOL-16-3014-025	25 Ltr
RXSOL-16-3014-210	210 Ltr

Product Description

RXSOL-16-3014 is a superior Heavy duty and highly concentrated water based alkaline cleaner, containing specially selected detergents and powerful long chain organic syndet ,specific saltswith surfactants & wetting agents. It is low toxic product with an exceptional solvency power on soil & oily matter & having good foaming qualities. It is free from Hydrocarbon solvents , Biodegradable and minimizes the extreme hazards to personnel in handling materials . Also suitable for TANK CLEANING .It can be used as a general purpose cleaner to remove oil and grease deposits . 

Application

Can be used for gas and hydrocarbon freeing of tanks. 

Dose

First of all flush the system with cold water to prevent evaporation rates and polymerization then the most economical method of using RXSOL-16-3014 is by direct injection followed by recirculation washing, using tank cleaning machines. 

Spraying method

RXSOL-16-3014 is a superior Heavy duty and highly concentrated water based alkaline cleaner, containing specially selected detergents and powerful long chain organic syndet ,specific saltswith surfactants & wetting agents. It is low toxic product with an exceptional solvency power on soil & oily matter & having good foaming qualities. It is free from Hydrocarbon solvents , Biodegradable and minimizes the extreme hazards to personnel in handling materials . Also suitable for TANK CLEANING .It can be used as a general purpose cleaner to remove oil and grease deposits . 

Rock and Roll method

Fill the tank with water (fresh or sea) up to 25 - 30% of Its Volume then 5–20% (Depend on contamination) RXSOL-16-3014 will add , let it stand for approximately 12-24 hours. Then fill with more water to 90% of the tank's capacity. This way the tank will be cleaned by natural agitation due to wave motion. Let for a few days, then drain the tank and ballast-deballast 2-3 times in order to achieve complete and thorough rinse off. 

Characteristics

Removes grease, oil, carbon deposits, soil and grime.

Keeps loosened deposits in suspension preventing re-deposition.

Low toxic. , Non-flammable.

Free from hydrocarbon solvents.

Effective and economical in use, Water-based Cleaner.

RXSOL-16-3014 has numerous cleaning applications including removal of greases, waxes, oil, sludge, soot.

carbon deposits and general dirt and grime.

Non-corrosive to ferrous metals. Suitable for all tankcoatings.

Can be used for gas and hydrocarbon freeing of tanks.

Can be used for deodorizing.

Contains wetting agents.

Suitable for accommodation cleaning of woodwork, leather, desks, etc.

Suitable for cleaning of toilets and showers.

Suitable for cleaning of reefer boxes.

Can be used for cleaning of windows and portholes. Also used for cleaning of dishes.

Can be used for cleaning of hospitals.

Can be used for hand laundry cleaning. 

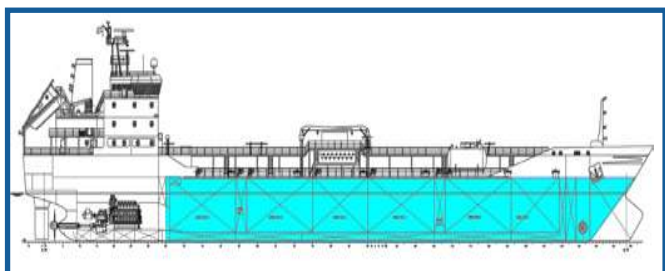


Membership Plan

Thank you for your interest in joining our Membership Plan. Our main goal is to provide the best services to our valued customers. Our services are built around providing you with best quality products at very low cost. We believe that this will help you to maximize the benefits.

Membership Plan Benefits ..

- Get High Quality Product in to Low Price.
- All amount paid for the membership plan to be refundable.
- Same price in India ,UAE, Singapore, Bahrain.
- Members are Offered to supply the RXSOL Brand on behalf of Rx Marine International.
- Members are offered the benefit of private Labeling also to establish his Own Brand/Logo through us. 



Part/Order no:	Packing
RXSOL-20-3001-020	20 Ltr
RXSOL-20-3001-025	25 Ltr
RXSOL-20-3001-210	210 Ltr

Product Description

It is a bio-degradable cleaning and degreasing products. Suitable to use with PRESSURE washing equipment and safe to the person handling it. Pleasant citrus odour. 

Application

A versatile cleaner which can be used for Tank or general cleaning.

MANUAL DEGREASING : May be applied neat or diluted with water up to 1 part to 15 – 20 parts by using a cloth ,brush or spray. After use as an engine room cleaner, bilge slops must be allowed to separate for at least 3 hrs before passing through an oily water separator.

Tank & BILGE CLEANING : RXSOL-20-3001-ECS is recommended for any of the standard tank cleaning methods including ship motion , pressure spray washing and recirculation method after mineral, animal, fish and vegetable oils. 

Dose

Application-METHOD:- (Dose Rate)

- **BY WASHING MACHINE :** For direct injection into tank This will require a solution strength between 0.03 and 1.5%, (0.3-15 lts per thousand lts of wash water)

- **BY RECIRCULATION METHOD :** Working strength should be 0.05 and 1% (0.5 –10 Ltres per ton wash water) by weight in fresh water , based on capacity of the equipment . This solution can be re-used until no longer effective.
- **Spot cleaning.** RXSOL-20-3001-ECS can be hand sprayed neat or diluted up to 5 parts water and allow 15 to 20 minutes contact time to penetrate deposits . Finally wash off with water jet . The best results will be obtained when wash water is heated to 40-60°C . 

Note

Excellent for use with pressure - washing equipment and for industrial application. It is suitable for stainless steel tanks having, epoxy / phenolic linings

Environmentally safe .

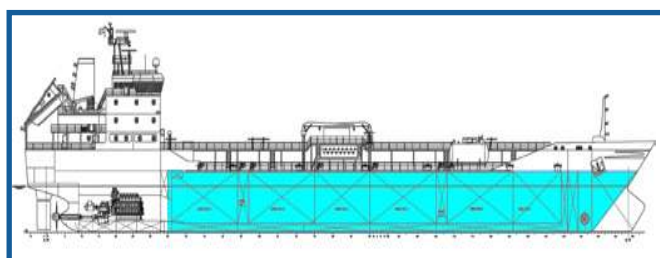
Highly effective Water-based degreaser.

Ingredients are all biodegradable.

Non-flammable , Pleasant citrus odour.

Highly cost effective concentrated cleaner
Very economical dilution rate, 1 to 15 parts of water.

Can be used as Accommodation cleaner for bulkheads, decks and toilets. Compatible on most types of plastics and vinyls floor. 



Part/Order no:	Packing
RXSOL-20-2007-020	20 Ltr
RXSOL-20-2007-025	25 Ltr
RXSOL-20-2007-210	210 Ltr

Product Description

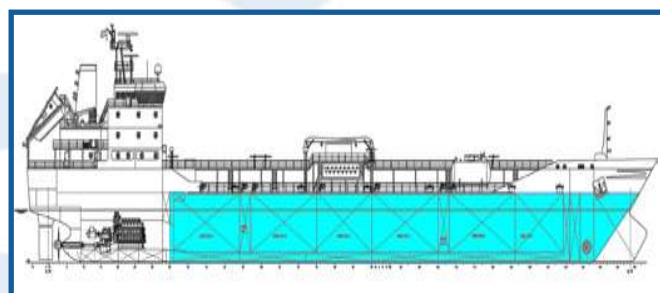
RXSOL-20-2007-210 is a very strong low foaming cleaner, Especially formulated to soften up / remove baked on drying oils and also used after animal and vegetable oils, fish oils, tall oils, tug oil etc. It is low toxic product with an exceptional solvency power on soil & oily matter .It is free from hydrocarbon solvents and minimizes the extreme hazards to personnel in handling materials. 

Application

First of all flush the system with cold water to prevent evaporation rates and polymerization then the most economical method of using RXSOL-20-2007-210 is by direct injection followed by recirculation washing, using tank cleaning machines. 

Note

Tank Lining– Stainless / Epoxy / Phenolic / Zinc-silicate. 



Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate. 

Part/Order no:	Packing
RXSOL-20-2015-020	20 Ltr
RXSOL-20-2015-025	25 Ltr
RXSOL-20-2015-210	210 Ltr

Product Description

Well balanced alkaline cleaner. It is free hydrocarbon solvents. Gentle & suitable for tank cleaning operation. A very strong alkaline cleaner, which can be used to soften up/ remove baked on drying oils and also used after animal and vegetable oils, fish oils, tall oils, tung oil etc. It is low toxic product with an exceptional solvency power on soil & oily matter. It is free from Hydrocarbon solvents, Biodegradable and minimizes the extreme hazards to personnel in handling materials.

Application

It can be used as a general purpose cleaner to remove oil and grease deposits. First of all flush the system with cold water to prevent evaporation rates and polymerization then the most economical method of using RXSOL-20-2015-210 is by direct injection followed by recirculation washing, using tank cleaning machines.

Spraying method:

Using LAC as delivered in drums, spray onto areas where residue remains following rough washing leave for 10-45 minutes (but do not allow to dry), then butterworth at maximum pressure and warm water 60°C for at least 3 hours, checking that there is no foam remaining in the final stages. Inspects tanks(s) and if desired result has been achieved fresh water rinse and dry.

Make sure to take all safety precautions are followed when handling / spraying RXSOL-20-2015.

Injection Method

Not applicable.

Dose

Refer to technical datasheet.

Re-circulation Method

Fill tank with fresh water and heat up to warm 50 °C. If a drop line is available on the tank line system, then start to circulate the water and add the required amount of Caustic flakes and LAC to make a 2.5% solution. A stronger solution can be made, but be advised that too much Caustic and too high temperature will result in white powder all over the tank. Under normal circumstances, between 2.5% and 4.5% will be sufficient strength. If there is no drop line, then lower butterfly hoses into the tank from the pump stack header without machines attached and circulate through these hoses while you fill the solution Material.

Technical Specifications

Removes grease, oil, carbon deposits, soil and grime.

Keeps loosened deposits in suspension preventing redeposition.

Low toxic. , Non-flammable.

Free from hydrocarbon solvents.

Effective and economical in use , Water-based Cleaner.

RXSOL-20-2015-210 has numerous cleaning applications including removal of greases, waxes.

Oil, sludge, soot, carbon deposits and general dirt and grime.

Non-corrosive to ferrous metals. Suitable for all tankcoatings.

Can be used for gas and hydrocarbon freeing of Tanks.

Can be used for deodorizing.

Contains wetting agents. 

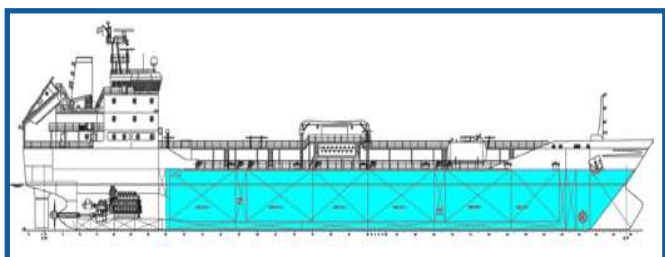
Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate.

Tips for removal of RED WINE Stains from :

Quickly Remove as much of the excess red wine from the material by blotting the spot with any absorbent material. Paper or cotton towels work best. Place a piece of the towel on the front and back of the material and press down & Hold for two to three minutes to absorb the wine. Remove and replace the towels and then repeat the process. 



Part/Order no:	Packing
RXSOL-20-2010-020	20 Ltr
RXSOL-20-2010-025	25 Ltr
RXSOL-20-2010-210	210 Ltr

Product Description

Marine clean SC is a superior NON-CAUSTIC BASED cleaner which is developed for use in TANK and other systems containing aluminium and other soft metal. It is also novel blend of organic and inorganic corrosion inhibitors, including molybdate, intended to protect steel, copper and other nonferrous metals. RXSOL-20-2010-210 strong non-caustic surfactant basis Tank cleaning and degreasing Product. It is based on the latest and most powerful biodegradable Surface Active and emulsifying agents. It contains fatty alcohol etoxylates, metasilicates and complexing agents. It works well in hard, soft, ambient and hot water. It is ideal for soot removing and cleaning of extremely dirty tanks after Mineral Oils/Petroleum Products. Note. All cleaning chemicals have reduced effect with seawater. 

Application

- Non-Flammable
- Leaves no film in the cargo tanks.
- Easy to apply.Effective and economical in use.
- Suitable in sea & fresh water.
- Contains no ethoxylated nonylphenol (NF).
- Biodegradable. 

Dose

Prior to use of any chemicals, make sure the tanks and lines are well stripped and drained. A proper pre-cleaning will reduce the amount of chemicals required. Further, do not overheat as this may change the characteristic of the cargo and in some cases burn the cargo to the bulkhead. Carefully read the cargo specification. For vegetable, animals, and fats: Tanks containing drying or semi-drying oils should be flushed or pre-washed or moisten as soon as possible After Completion of discharging to prevent formation of hard tenacious residues. The temperature used for precleaning will depend on whether the cargo is drying, semi-drying or non-drying, and the cargoes melting point. Thus an individual cleaning operation should be made for each cargo.

Due to the fact that the zinc is porous, a prolonged precleaning with lower temperatures is highly advisable prior to introduction of chemicals on such lining. 

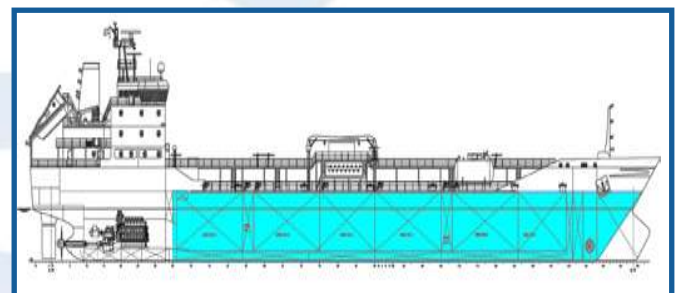
Re-circulations

- Flush tanks with ambient seawater to remove remaining cargo to slop. (As per MARPOL 78/73).
- Recycle tanks with increasing temperature for 2-8 hr, depending cargo and size of tank. This is a very important operation, as it will remove oilmud and residues in the coating/steel.
- Make a mixture with fresh water and 0,5 -2 % Marine clean SC. Insert the mixture into the tank and commence the re-circulation wash for 2-8 hr. Increased temperatures will improve the cleaning result. Maximum effect from chemical at 65°C. Do not overheat, as this may burn the cargo.

- Flush tanks with large amount of warm seawater (2-3 hr) to remove any residues of Chemicals.
- Flush tanks with freshwater to remove salts, mop and dry.

Spot cleaning after most CPP / hydrocarbons.

- Marine clean SC may be sprayed on the bulkhead neat or diluted , to areas where residues remain after tank washing, "Spot Cleaning". A heated dilution is found to be very efficient.
- Product should be allowed to stand for 10-30 minutes prior to re-washing areas. Do not leave the product to dry on bare coating.
- Clean areas by flushing manually with high pressure, using fresh water, or by performing a re-circulation. For persistent deposits, agitation by scrubbing will assist the cleaning operation. Heated water will increase the cleaning effect .



Technical Specifications

Odour.	Odourless.
M.W.	Liquid, colourless to yellow, soluble in water.
PH.	11.5 - 12.5 at 0.1 % concentration, pH 13 - 14 at 100 % concentration.
Boiling point.	>100 °C at 760 mm /Hg.
Vapour pressure.	not known.
Vapour density.	not applicable.
Freezing point.	5 °C at 760 mm/Hg.
Completely soluble in water.	-
Specific gravity.	1.23.

Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate. 

Part/Order no:	Packing
RXSOL-20-1011-020	20 Ltr
RXSOL-20-1011-025	25 Ltr
RXSOL-20-1011-210	210 Ltr

Product Description

It is a heavy duty and concentrated liquid blend of surfactants & organic compounds containing rust penetrating agents , solubilizer and inhibitors. Acts as rust proofing agent before the application of paint or coatings. It is non-flammable. Prevents further rusting. 

Application

MARINE - Rust Stain cleaner Metalic brightner (foaming nature)

RXSOL-20-1011-210 (Metalic Brightener-Rx) can be used as a spot cleaner after cleaning fats and fatty acids , can be used on painted surface

A superior heavy duty and highly Concentrated liquid blend of surfactant & organic compound containing rust penetrating agent, solubilizer and inhibited phosphoric acid with ionic and non ionic emulsifier. 

Dose

FOR TANK CLEANING

RECOMMENDATION : 0.2% TO 100% 

Product Description

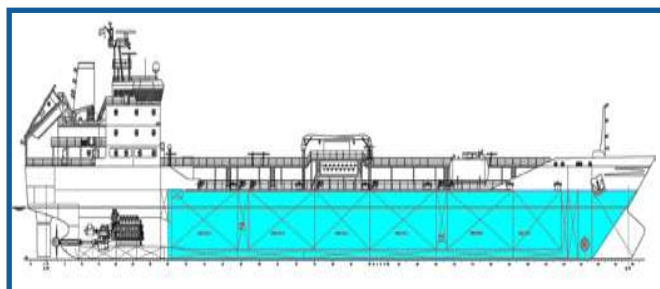
specially designed for removal of rust from any steel surface area and rust stain from Brass , Copper , S.S wood , ceramic and aluminium surfaces , painted or not . And act as surface brightner. 

Procedure for Use

RXSOL-20-1011 is highly concentrate Dilute in water (always use plastic jar and RXSOL-20-1011-210 should be added to water never add water to (RXSOL-20-1011) Surface should be sound clean and free from oil, grease, dirt etc. Diluted materials apply on rusted area for 15 to 20 minutes then wash off with water repeat if necessary. (For stubborn rusted stains.) 

Spraying Direction

Using an empty / clean 210 liter drum, fill with 190 liter of fresh water and add 20 liters of Metal Bright Rx This makes a 10% solution, which can be sprayed onto areas in coated tanks where rust stains are showing and over actual rusted areas. Once spraying is completed, wait 20-30 minutes and fresh water rinse with lots of water, if possible use butterworth machines for a more efficient result. This method can be used in stainless tanks to “freshen up” the look of the stainless materials. Make sure to rinse the tank very well, as residual detergent within the Metal Bright Rx will show up in a Wall Wash.



Injection

Not suitable. 

Re- circulation

When hand spraying is inadequate (too much area to cover), prepare a 2% - 5% solution in the tank using fresh water, heat solution to 50o C, then circulate the solution through butterworth machines for 3 x 45 minutes drops minimum. When using fixed machine recirculate for a minimum of 3 cycles. Rinse out the tank using hot seawater 85o C for 2 hours making sure that there is no form remaining in the water at the pumpstack drain cock. After the hot wash, the tank must be rinsed with fresh water and dried.

If the mixture is allowed to overheat, it will soften epoxy / phenolic coating.

Use a strainer at the pumpstack when circulating any solution.

Tank Lining – Stainless / Epoxy, Phenolic. 

Characteristics

When hand spraying is inadequate (too much area to cover), prepare a 2% - 5% solution in the tank using fresh water, heat solution to 50o C, then circulate the solution through butterworth machines for 3 x 45 minutes drops minimum. When using fixed machine recirculate for a minimum of 3 cycles. Rinse out the tank using hot seawater 85o C for 2 hours making sure that there is no form remaining in the water at the pumpstack drain cock. After the hot wash, the tank must be rinsed with fresh water and dried.

If the mixture is allowed to overheat, it will soften epoxy / phenolic coating.

Use a strainer at the pumpstack when circulating any solution.

Tank Lining – Stainless / Epoxy, Phenolic 

Characteristics

- Non-flammable.
- Prevents further rusting.
- Economical , cost effective.
- Surface brightening.
- Protects and maintains from corrosion.
- Acts as rust proofing agent before the application of paints or coatings.
- It doesn't affect rubber and plastic Compounds.
- Removes corrosion of all metals.
- excellent cleaner to remove contamination of fats and salts Marine application for trains,busses,tank containers and ship tanks.
- odourless,so it can be used in enclosed space.
- suitable for manual cleaning as well as high- and low pressure systems. 

Note

When cleaning aluminium, brass & copper flush with water upon completion of cleaning immediately Warning : In case of contact with skin ,wash immediately with plenty of water. Use chemical resistance PVC gloves for skin contact and also use face mask for eye and face protection.

Read the Material Safety Data Sheet before using this products. 

Technical Specifications

Appearance	Clear Yellowish liquid
Density	g/cm3 at 15°C: 1.2
Compatibility	-
Metal	Concentrate and long touch may corrode.
Vapour pressure.	No known effect
Packaging	not applicable.
Freezing point.	Order No. RXSOL-20 1011-210 Size (in litres) 25 , 35, 210

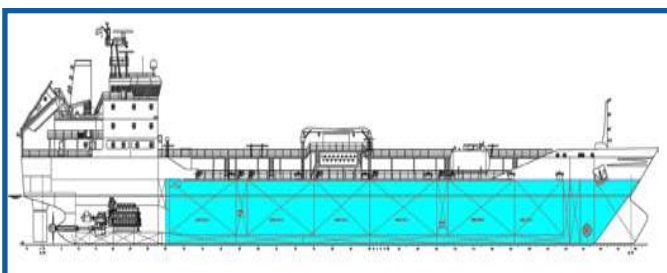
Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate.

Tips for removal of RED WINE Stains from :

Quickly Remove as much of the excess red wine from the material by blotting the spot with any absorbent material. Paper or cotton towels work best. Place a piece of the towel on the front and back of the material and press down & Hold for two to three minutes to absorb the wine. Remove and replace the towels and then repeat the process. 



Part/Order no: Packing

RXSOL-20-2103-020

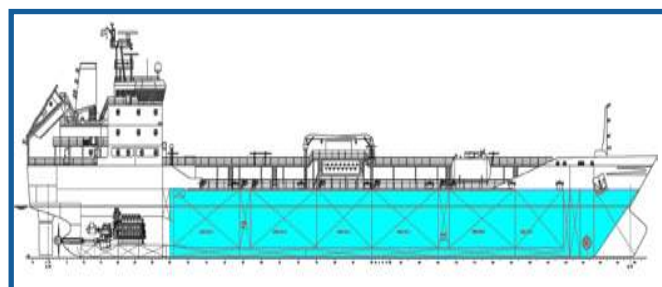
20 Ltr

RXSOL-20-2103-025

25 Ltr

RXSOL-20-2103-210

210 Ltr



SPECIFICATION OF PRODUCT

MeOH CONTENT,WT.% MIN	99.98
SPECIFIC GRAVITY	0.792 TO 0.795
DISTILLATIONRANGEAT 760 mm Hg. OC	64.5 TO 65.5
WATER CONTENT,WT. %	0.01
APPEARANCE	CLEAR
CARBONISABLE SUBSTANCES	PASSES THE TEST
COLOUR, MAX	15 HAZEN
ACIDITY (AS ACETIC AMMONIA), PPM, MAX	30 (AS FORMIC ACID)
ALKALINITY (AS AMMONIA), PPM, MAX	PASSES PHENOLPHTHALEIN TESTBS: 506
RESIDUE ON EVAPORATION, PPM, MAX	10
ALDEHYDES AND KETONES AS ACETONE,WT. % MAX	0.015
ACETONE,WT, % MAX	0.003
ACETYLENE IN MeOH	PASSES THE ASTM TEST
CHLORIDE CONTENT, PPM, MAX	0.0001 (NILL)
ORGANIC IMPURITIES	Passes test
SULPHUR TOTAL AS SULPHATES, PPM, MAX	0.05
PERMANGANATE TIME, MIN	AS PER BS: 506, 50
PHASE	LIQUID

Part/Order no:	Packing
RXSOL-20-1106-020	20 Ltr
RXSOL-20-1106-025	25 Ltr
RXSOL-20-1106-210	210 Ltr

Product Description:

Extra pure NITRIC , removes iron residue & forms an oxide layer that boosts the corrosion resistance of the stainless steel intended to improve the corrosion resistance of parts made from austenitic, ferritic and martensitic corrosion-resistant steels of the 200, 300 and 400 series and precipitation hardened corrosion-resistant steels. High carbon, high chromium martensitic 440C grades which are selected for high hardness and resistance may be exempt from passivation treatments at the discretion of the procuring activity.

PRECAUTION

- Loose iron particles or other foreign particles must be removed or they will appear as rust or stainspots. May become smeared over or imbedded into the surface of corrosion-resistant steel parts.
- DO avoid chlorides that, in excess, can Cause a harmful flash attack. When possible, Use only a good grade of water containing less than about 50 parts per million (ppm) of chlorides. Tap water is usually adequate, and in some cases up to several hundred ppm chlorides can be tolerated.

Application

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 membrane.

Uses : Orgenc synthesis (dyes, drugs, explosives, cellulose nitrate, nitrate salts), photoengraving, etching steel

Note

During processing operations such as forming, machining, tumbling and lapping, iron particles or other foreign particles may become smeared over or imbedded into the surface of corrosion-resistant steel parts. These particles must be removed or they will appear as rust or stain spots. High carbon, high chromium martensitic 440C grades which are selected for high hardness and resistance may be exempt from passivation treatments at the discretion of the procuring activity.

CAS NUMBER 7697- 37- 2

SPECIFICATION OF PRODUCT

HNO ₃ CONTENT, WT. % MIN	62 - 68 %
MINIMUM FREEZING POINT	5.30C
IDENTITY	BY IR Spectrum
APPEARANCE	CLEAR WHITE FUMING Nitric ACID NOTE : IT IS decomposed BY LIGHT OR elevated TEMP, BECOMING RED IN COLOUR FROM NITROGEN DIOXIDE.
CARBONISABLE SUBSTANCES	PASSES THE TEST
COLOUR, MAX	10 HU
NON VOLATILE MATTER	0.001%
CHLORIDE CONTENT, PPM, MAX	0.1 ppm
ORGANIC IMPURITIES	Passes test
SULPHUR TOTAL AS SULPHATES PPM, MAX	0.5 ppm
PHASE	LIQUID

Part/Order no: Packing

RXSOL-20-2027-020	20 Ltr
RXSOL-20-2027-025	25 Ltr
RXSOL-20-2027-210	210 Ltr

Product Description:

RXSOL-20-2027 is an extremely effective liquid blend of concentrated emulsifier with penetrating agents, mild abrasives and wetting agents which makes this an excellent liquid scouring cleansers for cleaning and degreasing of double bottom, deep tanks etc which is used for fuel oils. It can also be used for BOILERS, MARINE DIESEL ENGINE COOLING WATER SYSTEM and for local cleaning and degreasing of engine rooms on deck.

Dosage Chart for Rock and Roll Cleaning

	1st Stage	2nd Stage
Over 320 and sludge Tanks	1 litre	1 litre
150 - 300	1 litre	0.75
Physical Properties:		
Colour	Light brown liquid	
Density	In g/cm ³ at 15°C: 0.9	
Flash Point	Above 70 °C	
PACKAGING	Order No RXSOL-20-2027-	Size (in litres) 20, 25, 35, 210.

Directions for Use and Dose Rates

RXSOL-20-2027-025 is specially formulated for cleaning double bottom, deep and wing tanks etc, used for fuel oils. It can also be used for local cleaning and degreasing of engine rooms and on deck.

Soak Method

for heavy soil put parts into undiluted RXSOL-20-2027-025, for general soiling use a solution of 10-30% RXSOL-20-2027-025 in water. Parts should be soaked for at least 30 minutes before washing off with water.

Spraying Method

Use neat RXSOL-20-2027-025 over all soiled areas. Allow 10-20 minutes for reaction, then rinse with high pressure water hose. Scrubbing will assist the cleaning operation for stubborn deposits.

Rock and Roll Method

Recommended time to clean and gas-free under normal circumstances would be 3-6 days, for cleaning of double bottom tanks at sea.

- First of all heat the remaining oil in tanks.
- By stripping constantly. flush the tank with sea water,
- Close all suction and discharge valves.
- 1st Dose Fill the tanks by ½ to 1 litre RXSOL-20 - 2027 - 025 per tone of water through pipe or manhole, for 75-80% of capacity of tank to be cleaned.
- Then fill tank to 25% capacity with sea water, raise the temperature up to 60°C maximum, and maintain this temperature for 24 hours.

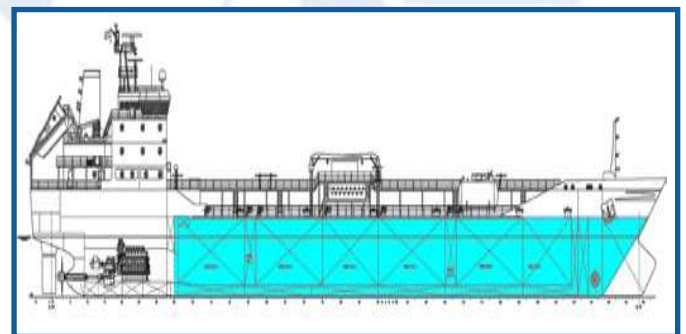
- Top up tank to 75-80% capacity with sea water, continue to heat for 48 to 72 Hours.
- Discharge and strip tank. Fill to 50-60% capacity with sea water and allow 2 hours rinsing time.
- Discharge tank and strip, flushing tank with sea water for 2 hours , stripping continuously. When completed, inspect tank to ascertain if second cleaning is required. If so:
- For completion add second dose of RXSOL-20-2027-025, fill tank with sea water 75-80% capacity and raise the temperature to 60°C maximum. Maintain this for 48 to 72 hours. And recirculate the solution.
- Discharge and strip tank, flush with sea water, stripping continuously for 2 hours.
- To gas - free, fill tank with sea water to overflow Through vents and sounding pipes, discharge and strip completely.

- It can be used as a general purpose cleaner to remove oil and grease deposits and Cleaning of bilge spaces and engine rooms from soiled surfaces. Can be used for degreasing and cleaning.



Technical Specifications

- Highly effective concentrated cleaner.
- Versatile, can be used for a wide application range (for TANK or general cleaning.)
- Provides quick and thorough emulsifying action.
- Can be used for cleaning , gas freeing of double Bottom, deep and other fuel oil bunker tanks.
- May also be used for cleaning and gasfreeing of crude and refined mineral oil cargo tanks.



Part/Order no:	Packing
RXSOL-20-2002-020	20 Ltr
RXSOL-20-2002-025	25 Ltr
RXSOL-20-2002-210	210 Ltr

Product Description

RXSOL-20-2002-210 is an extremely effective liquid blend of concentrated emulsifier with penetrating agents, mild abrasives and wetting agents which makes this an excellent liquid scouring cleansers for cleaning and degreasing of Double bottom, deep tanks etc which is used for fuel oils. It can also be used for BOILERS, MARINE DIESEL ENGINE COOLING WATER SYSTEM and for local cleaning and degreasing of engine rooms on deck.

Directions for Use and Dose Rates

RXSOL-20-2002-210 is specially formulated for cleaning double bottom, deep and wing tanks etc, used for fuel oils. It can also be used for local cleaning and degreasing of engine Rooms and on deck.

Soak Method

for heavy soil put parts into undiluted RXSOL-20-2002-210, for general soiling use a solution of 10-30% RXSOL-20-2002-210 in water. Parts should be soaked for at least 30 minutes before washing off with water.

Spraying Method

Use neat RXSOL-20-2002-210 over all soiled areas. Allow 10-20 minutes for reaction, then rinse with high pressure water hose., Scrubbing will assist the cleaning operation for stubborn deposits.

Rock and Roll Method

Recommended time to clean and gas-free under normal circumstances would be 3-6 days, for cleaning of double bottom tanks at sea.

- First of all heat the remaining oil in tanks.
- By stripping constantly, flush the tank with sea water.
- Close all suction and discharge valves.
- 1st Dose Fill the tanks by $\frac{1}{2}$ to 1 litre RXSOL-20-2002-210 per tone of water through pipe or manhole, for 75-80% of capacity of tank to be Cleaned.
- Then fill tank to 25% capacity with sea water, raise the temperature up to 60°C maximum, and Maintain this temperature for 24 hours.
- Top up tank to 75-80% capacity with sea water, continue to heat for 48 to 72 hours.
- Discharge and strip tank. Fill to 50-60% capacity with sea water and allow 2 hours rinsing time.
- Discharge tank and strip, flushing tank with sea water for 2 hours, stripping continuously. When completed, inspect tank to ascertain if second cleaning is required. If so:
- For completion add second dose of RXSOL-20-2002-210, fill tank with sea water 75-80% capacity and raise the temperature to 60°C maximum. Maintain this for 48 to 72 hours. And recirculate the solution.
- Discharge and strip tank, flush with sea water, stripping continuously for 2 hours.
- To gas - free, fill tank with sea water to overflow

Part/Order no:	Packing
RXSOL-20-T-300-020	20 Ltr
RXSOL-20-T-300-025	25 Ltr
RXSOL-20-T-300-210	210 Ltr

Product Description

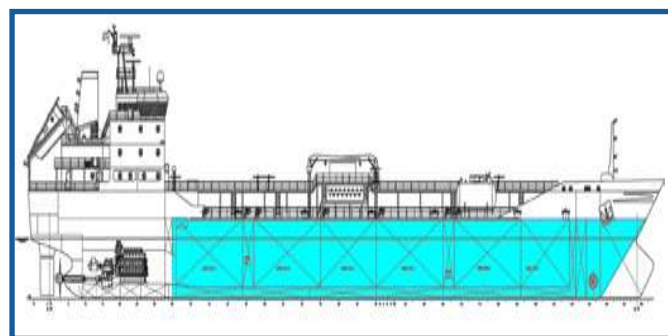
RXSOL-20-T-300-210 is a multi - purpose heavy duty cleaing soap solution used as a common dirt remover in residential, commercial and industrial cleaning processes.

Application

Universal cleaner for home, institutes, plant and machinery.compatible with all type of surfaces.

Note

RXSOL-20-T-300-210 has a long non-polar hydrocarbon chain and a highly polar group at the end of the molecule thus having a cleaning power better than ordinary soap.



Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate. 



Part/Order no:	Packing
RXSOL-20-2001-020	20 Ltr
RXSOL-20-2001-025	25 Ltr
RXSOL-20-2001-210	210 Ltr

Product Description

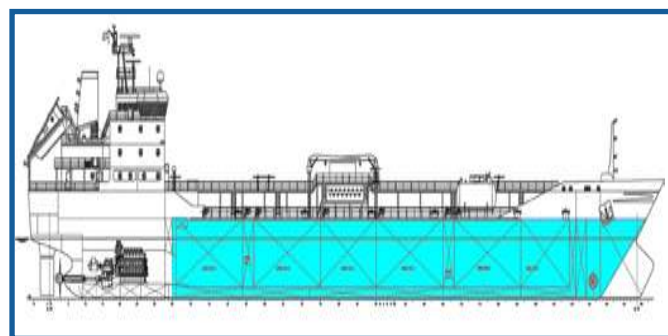
RXSOL-20-2001 is highly concentrated organic / inorganic emulsifier with powerful penetrating agents, corrosion inhibitors and surfactants. Quickly removes oil, grease, gums, adhesive and dyes. Best results also achieved for cleaning of oil side of fuel and lube oil heat exchangers. 

Application

Used as a tank cleaner or for general degreasing, cleaning and gas freeing for double bottom tanks, wing tanks, pipe lines, fuel oil tanks, etc.

DOSE

Refer to technical datasheet.



Stain Removal Tips

Unknown

If a stain cannot be identified, treat with cool water first, then sponge with a good quality laundry liquid solution. Rinse well and if stain persists try equal quantities of methylated spirits (wood alcohol) and ammonia, testing first to note effect on colour and fabric. If colour is affected, omit ammonia. As a last resort, try a mild bleach, e.g. A diaper wash/sanitiser container sodium percarbonate.

Tips for removal of RED WINE Stains from :

Quickly Remove as much of the excess red wine from the material by blotting the spot with any absorbent material. Paper or cotton towels work best. Place a piece of the towel on the front and back of the material and press down & Hold for two to three minutes to absorb the wine. Remove and replace the towels and then repeat the process. 



Part/Order no:	Packing
RXSOL-20-2035-020	20 Ltr
RXSOL-20-2035-025	25 Ltr
RXSOL-20-2035-210	210 Ltr

Product Description

HEAVY DUTY TANKCLEANER MANUFACTURED FROM NATURAL RAW MATERIALS WHICH CONTAINS NO CHLORINATED OR AROMATIC HYDROCARBONS 

- More effective than solvent cleaners.
- Non-toxic and environmentally safe.
- Safe to use because of its high flashpoint.
- Completely biodegradable.
- Replaces most conventional tank cleaners and Cleaners. 

Application

Rxsol Tankclean Eco is designed for the removal of: heavy mineral oils and greases, dopes, additives, lubricants, asphalt, distillation residues, coal tar, several synthetic resins, paraffines (e.g. slackwax), inert gas soot, vegetable, fish and animal oils and fats, fatty acid and greases, crude palm oil, styrene, palm fatty acids.

DOSE

Cleaning of cargo and storage tanks by means of recirculation method.

Prewash

Before cleaning with Rxsol Tankclean ECO, it is necessary to prewash the tanks with hot or cold water, depending on the type of cargo.

Re- circulation method

Caretank ECO is added to a mixing tank containing sufficient quantity of water in order to obtain a good recirculation. The water is heated by means of the heating coils, cargo heat exchanger or butterworth heater. The tanks are washed by means of a loading pump, after which the solution used is recycled to the mixing tank. One solution is most often used to wash 1 – 4 tanks. Tankclean ECO must be recirculated as a 0.2 – 0.5 % emulsion (dependent on the nature of the contamination). Allow this emulsion to circulate for 2 – 4 hours at the temperature of 10-60 °C (depending on type of cargo).

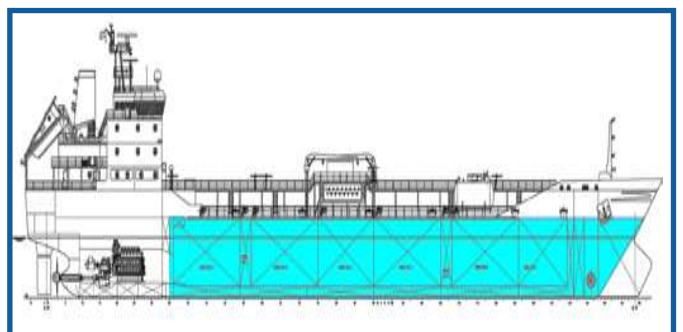
Direct Injection

Inject 0.1 to 0.2 litres of Tankclean ECO per every 100 litres of water into the washing system. Maintain cleaning temperatures between 10-60 °C (depending on type of cargo). Cleaning time 2 to 6 hours, followed by thorough rinsing with fresh hot water.

Technical Specifications

Properties:

- Specific gravity (at 20°C) : 0.94
- Flash point (10%) : $\pm 70^{\circ}\text{C}$
- pH (10%) : 10.0
- Colour : green
- Odour : citrus



Part/Order no:	Packing
RXSOL-20-1201-020	20 Ltr
RXSOL-20-1201-025	25 Ltr
RXSOL-20-1201-210	210 Ltr

Identifiers

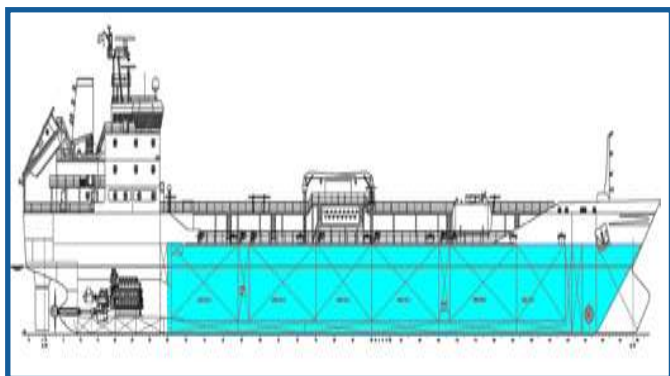
CAS number	108-88-3
PubChem	1140
ChemSpider	1108
UNII	3FPU23BG52
DrugBank	DB01900
KEGG	C01455
ChEBI CHEBI:	17578
ChEMBL CHEMBL	9113

Properties

Molecular formula C_7H_8 or $C_6H_5CH_3$
 Molar mass 92.14 g/mol
 Appearance colorless liquid
 Density 0.8669 g/mL (20 °C)
 Melting point -93 °C, 180 K
 Boiling point
 110.6 °C, 383.8 K
 Solubility in water 0.47 g/L (20–25 °C)
 Refractive index (nD) 1.497 (20 °C)
 Viscosity 0.590 cP at 20 °C

Technical Specifications

TOLUENE		
Test	Unit	Results
Colour	Visual	Passes
Sp. Gravity	15°C / 15.5°C	0.8722
Residue on evaporation	% by wt.	2mg./100m
Copper corrosion test	-	Passes
Benzene content	% wt.	0.002
Toluene content	% wt.	99.98



Part/Order no:	Packing
RXSOL- 20 - UP - 300-020	20 Ltr
RXSOL- 20 - UP - 300-025	25 Ltr
RXSOL- 20 - UP - 300-210	210 Ltr

Product Description

Unipol-RX is a pH-neutral, liquid concentrated detergent with good cleaning qualities. It contains effective but mild and environmentally safe wetting agents and surfactants that allow rapid penetration to remove fats and oils. Unipol is especially suitable for hydrocarbon freeing of tanks, and is safe on all tank coatings including zinc silicate. 

Application

For the removal of traces of hydrocarbons to a hydrocarbon free wall wash test specification prior to loading of sensitive cargoes. Unipol may also be used as a general purpose economical tank cleaning detergent. 

Dose

The most economical method of using Unipol is by recirculation washing, using tank cleaning machines. Make up a solution of 1–5% in preferably fresh water in the tank and recirculate. Whenever possible, the cleaning solution should be heated to 50–80°C. Rinse off with hot fresh water. Alternatively, hand spray the tank with a 20–50% solution of Unipol and allow to stay for 30–60 minutes before a finalrinse with hot water. When the tank is cleaned to a “water white standard”, remove any free water and ventilate until the tank is dry. 

Note

- Non-caustic, pH neutral.
- Solvent free Non-flammable.
- Does not contain nonyl phenol ethoxylates or other Estrogenic compounds.
- Non-corrosive to metals.
- Suitable for all tank-coatings.
- Can be used for gas and hydrocarbon-freeing of tanks.
- Can be used for deodorizing.
- Complies with all environmental regulations and the EU Detergent Regulation
- IMO approved and listed in Annex 10 of the MEPC.2/ Circular 

Technical Specifications

Appearance.	Light yellow liquid
Density,in g/cm3 at 15°C	1.1
FLASH POINT, (PMCC) in °C	N/A
pH, in conc. at 20°C	8-9
pH, in 1% at 20°C	7-8
COMPATIBILITY	-
Metal	The product is compatible with all normally used metals and their alloys.
Rubber	No known effect.
Synthetic rubber	No known effect.