



Product Information

CR ZINC SAFE NEUTRAL HCF

USAGE/DESCRIPTION

Cr Zinc Safe Neutral HCF is a liquid based tank cleaning additive with low foaming surfactants that will rapidly removed vegetable oil, animal fats and lube additives without damaging aluminium or zinc coated tanks. This product has proven to be effective for the removal of rust sediments and hydrocarbon free cleaning operation. It can also be used as a final wash down when cleaning has been done by alkaline degreasers like Cr alkaline degreaser LAC or Cr Aqua Cleaner.

COMPARABLE MARKET PRODUCTS

"CR CARBON REMOVAL & PAINS STRIPPER Unitor's alkleen safety liquid, Careclean Neutral HCF, Vecom's tankclean Neutral HCF, Unimarine waterbased Neutral HCF and Drew's edge.

TYPICAL SPECIFICATIONS

| | | |
|---------------------------------------|---|---|
| Specific Gravity at 20 ⁰ C | : | 1.057 |
| Flash Point | : | Non Flammable |
| Solidification Temperature | : | 0 |
| Appearance | : | Clear |
| pH (concentrated) | : | 6 |
| pH (1% solutio) | : | 7 |
| Characteristic | : | Slightly viscous, completely soluble in water |



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DIRECTION FOR USE & DOSAGE INSTRUCTION

Spraying Method

For cleaning on surface with heavy contaminants, it will be more effective to spray on the area with a high pressure sprayer. Wet the entire surface with neat **Cr Zinc Safe Neutral HCF** and allow 10 ~ 15 minutes for the solution to take effect before washing off the entire area with water at ambient temperature.

Circulation Method

2% of **Cr Zinc Safe Neutral HCF** can be circulated by using the deep well pump through tank washing machine for approximately 5 hours at a temperature of between 40 ~ 45 °C. The solution can be transferred to another tank for washing. The treated tank had to be cleaned thoroughly with water.

***CAUTION:** When cleaning hydrocarbon products it is a standard practice that the cleaning temperature be 10⁰C below the boiling point of the lightest component of the cargo. This is to prevent vapour evaporation of the cargo during the tank cleaning process.

Immersion

Small parts / components may be cleaned by soaking them in a bath of **Cr Zinc Safe Neutral HCF** at a dosage of 10% - 20% of solution in water.

Note: Do not soak electrical / plastic / rubber or concealed parts which cannot be easily washed.



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BENEFITS / ADVANTAGES

- **Cr Zinc Safe Neutral HCF** can be used on all material surfaces, including zinc coated and aluminium tank
- A good product to keep on board the ship as it can be used to substitute alkaline cleaner and can be used as a final wash down to remove whitish stain after alkaline cleaning
- This **IMO approved product** is environmentally friendly, non flammable, highly effective and biodegradable.
- Due to the addition of antifoam agent, **Cr Zinc Safe Neutral HCF** will not produce excessive foam which might create a problem to the ship's crew.

CARGO LIST

Cr Zinc Safe Neutral HCF is effective for the removal of the various cargo residues :

- All **mineral oils**, including but not limited to palm oil, linseed oil, coconut oil, corn oil, flaxseed oil, mineral seed oil, peanut oil, cashew oil, sunflower oil and tung oil.
- All **fats** including but not limited to fatty acids, fatty alcohols and animal fats.
- **Lubricant additives** from Exxon, Lubrizol Corporation, Shell and Chevron.
- **Petroleum products and petrochemicals** especially sensitive cargoes like methanol, glycols where the previous cargo contain high amount of chlorides and hydrocarbon, example toluene, xylenes, benzene, etc.
- Effective as a removal of rust stains and contaminants/residue.



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APPLICATIONS

Cr Zinc Safe Neutral HCF can be used on iron, steel, epoxy, phenolic, and zinc surfaces. When heated to a temperature of 45°C, it will reach its optimum effectiveness for oil and grease removal on tank walls and industrial surfaces. When flushed on surfaces containing mineral oil and greases, it forms a milky emulsion and can be easily rinsed away.

HANDLING & PRECAUTIONS

This is a concentrated solution and appropriate protective clothing and goggles must be worn when working with the product. Should the solution come into contact with skin or clothing, flush with generous amounts of water. Should the solution come into contact with eyes, flush with generous amounts of water and rinse with standard eyewash and seek medical treatment immediately.