# HOT TANK LIQUID – Heavy Duty

Combined Immersion Degreaser, Deruster, Descaler

## Description

**HOT TANK LIQUID – Heavy Duty** is a complex blend of heavy duty alkalis, surfactants and sequestrants in a liquid concentrated form which provides multi functional cleaning and conditioning of ferrous metal surfaces.

Under light to medium conditions of rust and scale **HOT TANK LIQUID – Heavy Duty** will remove these soils without any subsequent acid treatment while simultaneously removing heavy deposits of organic soil such as animal fats and mineral oils and greases.

## User Benefits

- Substantially reduces the use of mineral acids in degreasing - descaling functions.
- Reduces processing time and labour costs.
- Being liquid **HOT TANK LIQUID – Heavy Duty** is instantly soluble in water thus eliminating hazards associated with additions of highly alkaline powders to water at high temperatures.
- Approved for use in mild steel equipment.
- Operates at economically low concentrations.

## Physical and Chemical Properties

| | | |
|---|---|---|
| Form | : | Liquid |
| Colour | : | Amber - brown |
| pH | : | >14 |
| SG | : | 1.3 |

## Application

**HOT TANK LIQUID – Heavy Duty** is used for the removal of grease and fatty soils, rust and scale from steel in many metal finishing applications such as galvanising, electroplating and phosphating.
**HOT TANK LIQUID – Heavy Duty** is always used by immersion.

## Operating Details

These recommendations are based on field experience and variations may be required for specific applications.

| | | |
|---|---|---|
| Concentration | : | Cleaning: 5% - 8% v/v<br>Derusting: 20% - 25% v/v depending on amount and condition of rust and scale. |
| Temperature | : | Cleaning: 60°C - 80°C<br>Derusting: 80°C - 95°C |
| Time | : | 5 mins - 2 hours depending on conditions of items being cleaned. |
| Method | : | Immersion. |

## Bath Control

Take a 5ml sample from the bath.
Add a few drops of phenolphthalein indicator and titrate with 0.1N acid until colourless.
Calculate concentration as follows:

No. of mls x 0..3 = % v/v **HOT TANK LIQUID – Heavy Duty**

## Safety Precautions

**HOT TANK LIQUID – Heavy Duty** is a strong caustic solution. Contact with skin and eyes will cause burns and possible permanent damage.

Wear splash proof safety glasses, neoprene gloves, water proof apron and boots.

## First Aid

If poisoning occurs, contact a doctor or Poisons Information Centre.

If in eyes, hold eyes open, flood with water for at least 15 minutes. Contact lenses should be removed. Seek urgent medical attention.

If swallowed, do NOT induce vomiting. Give water to drink. Seek urgent medical attention.

If skin contact occurs, remove contaminated clothing, and wash affected area with water. Seek medical attention if irritation persists.

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