ECONOCLENSE D

INTRODUCTION

Econoclense D is a highly effective electrocleaner for steel, and for certain applications, copper and its alloys. It is an alkaline de-ruster and will remove heat scales and smuts, oxides, sulphides, finger marks, soaps, chromate films, phosphates and many other contaminants including the stripping of paint films.

Periodic reversal may be used for light scale removal. The cleaner can also be used as a second stage anodic cleaner for steel and copper making it ideal for mixed metals such as brazed steel components. It leaves a fully active surface ready for electroplating.

BENEFITS

- High alkalinity to remove scales, oxides and smuts from steel.
- Economical - long life and effective cleaning.
- Exceptional versatility - stripping of many other types of organic and inorganic coatings.

OPERATING DATA

For most applications, the operating parameters are:

Concentration	50 – 150 g/L
Temperature	25 – 65°C
Current Density	2.5 - 10 A/dm^2 (anodic or periodic reverse)
Immersion Time	3 – 15 minutes

EQUIPMENT

Tanks	Mild or stainless steel, or other materials suitable for use with alkaline solutions
Anodes	Mild steel
Heaters	Electric immersion heaters (mild, stainless steel, PTFE or silica), steam, gas or high pressure hot water.

Temperature control is recommended to maintain optimum performance.

INSTALLATION

It is essential that the tanks to be used for Econoclense D are thoroughly cleaned and leached before any product is introduced.

If in any doubt as to the cleaning procedure please contact PMD Technical Department.

1. ¾ fill tank with water.
2. Add the required weight of Econoclense D with stirring to dissolve.
3. Make up to final volume with water.
4. Heat to operating temperature.

MAINTENANCE AND CONTROL

The volume of the solution should be maintained regularly by the addition of water. It is recommended that automatic level controllers are fitted to the tank to ensure constant solution concentration and protect heaters.

The solution should be analysed regularly and replenished as necessary. (See analysis method).

The solution should be discarded and a fresh one made-up when the solution is so loaded with absorbed soils that replenishment has no effect on cleaning time.

ANALYSIS METHOD

Reagents

1N Sulphuric acid acid

Phenolphthalein indicator

Method

1. Pipette a 25.0ml sample of cooled working solution into a 250ml conical flask.
2. Dilute to 100ml with de-ionised water and add 2-3 drops of phenolphthalein indicator.
3. Titrate with 1N sulphuric acid to a colourless end point.
4. Record titre = t mls.

Calculation

t x 2.98 = g/L Econoclense D

DISPOSAL

Dispose of in accordance with local authority requirements.

PRODUCT FAMILIES

The following products are referred to in this data sheet.

PRODUCT NAME	PRODUCT NUMBER
Econoclense D	206004

Whilst every endeavour has been made to ensure that the information given in this data sheet is correct, PMD Chemicals Limited gives no warranty, express or implied, relating to the use or performance of this product.