



# CLN-2000

## Neutral pH Cleaner for Closed Loop Systems

### Description

Glengarry **CLN-2000** Neutral pH Cleaner formulated for the removal of iron oxide deposits in closed recirculating systems. This product is chelant based and contains a passivating agent for the protection of the base metal during cleaning.

**CLN-2000** is non-acidic at normal dosage and is virtually odourless and non-foaming. **CLN-2000** is concentrated liquid product with a dark brown appearance and the following characteristics:



-  pH: 4.0 - 5.0
-  S.G.: 1.20 - 1.25

### Application

**New Systems:** New closed loop systems must be cleaned before being placed into service. The pre-operational cleaning procedure with **CLN-2000** will provide the necessary cleaning and preparation for passivating newly installed systems so that maximum performance can be achieved from the equipment.

**Existing Systems:** Cleaning is also recommended for any existing operational loops that become fouled with corrosion by-products and/or microbiological growth. Such deposits serve to impair efficient operation of the system due to reduction of flow rate, interference with heat transfer, plugged tubes and premature deterioration of the circulating pump seals.

### Availability

-  20 Litre pail
-  205 Litre drum

### Directions

**CLN-2000** is normally fed to the system at a nominal dosage rate of 1 litre per 100 litres of system water. The cleaner is more effective at higher temperature greater than 50°C.

The system is then recirculated over a period of time. As the cleaning proceeds with iron oxides going into solution, the pH will tend to rise. It may be necessary then to lower the pH back to the optimum cleaning pH range of 6.5 to 7.0 with a dilute acid or a bisulfite solution.

Monitor the pH and iron levels during cleaning. Cleaning is complete when further addition of **CLN-2000** does not result in an increase in iron levels. Since the cleaner is not corrosive to the base metal, the draining and flushing can be done at the earliest convenient time.

After cleaning is complete, the system is drained to remove the contaminants and any suspended solids. The system should then be refilled and flushed to remove the residual cleaner and any other suspended materials. Strainer baskets should be examined and cleaned. After cleaning the system should then be refilled with clean water and treated with a Corrosion Inhibitor.

### Safety Precautions

Observe all safety and handling precautions. Wear the appropriate safety equipment before handling.

For further information, please refer to the Safety Data Sheet.