

Product Data Sheet

Product Code: LCD11

Issued: May 5, 2016

What is LCD-11?

LCD-11 is a heavy-duty, built alkaline liquid CIP detergent for removing food residues, fats, oils and proteins from metallic, plastic and ceramic surfaces.

Key Benefits

- ✓ Highly concentrated
- ✓ Low foaming
- ✓ Free-rinsing
- ✓ Can be used with hard water
- ✓ Safe on stainless steel

How Does It Work?

LCD-11 contains a blend of caustic soda (sodium hydroxide) and low-foaming builders and buffers that have been selected to provide fast and complete removal of fats, oils, proteins, starches and other food residues and biofilms from hard surfaces.

As well as saponifying fats and oils, the alkalinity also hydrolyzes peptide bonds and breaks down large, insoluble proteins into smaller, soluble polypeptides. The sequestering system in LCD-11 removes deposited calcium- and other mineral-based salts.

For Use On ...

LCD-11 is designed for application by "Cleaning in Place" (CIP), soak tank or manual brushing applications. It is ideal for use on stainless steel vats, pipes, fittings, utensils and equipment.

It is not suited for application to aluminium or other soft metals including brass, copper, zinc and galvanized iron.

Technical Data

Properties



COLOUR – Transparent, colourless liquid
 ODOUR – None
 pH = 13-14
 FOAM – Low-foaming

Environmental Care



LCD-11 conforms with all statutory environmental requirements. It is based on selected ingredients which perform efficiently so there is no waste or damage. LCD-11 is based on biodegradable ingredients. LCD-11 containers will be cleaned and reused if returned to Agar Cleaning Systems Pty Ltd., significantly reducing plastic usage and waste. They can also be recycled.

Quality

The design, manufacture and supply of all Agar chemical products is controlled by the Agar Quality Management System which is registered and externally audited by SAI Global as complying with the requirements of AS/NZS ISO 9001 "Quality Management Systems – Requirements".

First Certified: 30 April 1996

SAI Certificate No.: QEC7358

Application

➤ Recirculation CIP cleaning

Cleaning-In-Place (CIP) offers a fast, efficient and reliable system for cleaning all types of process plant. It permits cleaning without the need to dismantle the equipment. Cleaning-In-Place typically consists of five operations in sequence:

1. Flushing with water to remove bulk left-over product.
2. Alkaline cleaning: an alkaline detergent solution (such as LCD-11) is used to dissolve fats, oils and proteins or remove stubborn deposits.
3. An intermediate water rinse clears out the alkalinity and cleaning by-products.
4. Acidic cleaning: an acidic detergent (for example, Agar AC-201 Acid CIP Detergent or APD-S) is used next to neutralize the traces of caustic remaining on the surfaces and to remove mineral deposits, scale and oxalates (found in beerstone for example).
5. Final water rinse: cold potable water is used to flush out the acid solution.

Agar Cleaning Systems maintains Safety Data Sheets (SDS) on all of its products. These sheets contain information that you may need to protect your employees and customers against health or safety hazards associated with our product. Agar Cleaning Systems recommends that you obtain a copy of the respective SDS sheet prior to using this product. The information in the Product Data Sheet is based on data we believe to be reliable. It is offered in good faith, but without guarantee, as conditions and methods of use of our product are beyond our control.

Product Data Sheet

Product Code: LCD11

Issued: May 5, 2016

Application (continued)

LCD-11 dilution rates for CIP:

Dilute LCD-11 to between 1 in 160 and 1 in 40 (0.62 to 2.5%). This is 125mL – 500 mL per 20L of water at 50° to 80°C.

Recirculate for 10 to 30 minutes depending on the degree of soilage. Flush with potable water to rinse all lines and product-contacting surfaces.

➤ **Soak tank cleaning**

Dilute LCD-11 to between 1 in 20 and 1 in 3 (5 to 30%).

This is 1L – 6.7L per 20L of ambient to hot water.

Soak items for 2 to 60 minutes depending on degree and nature of residues.

➤ **Brushing/ Manual cleaning**

Dilute LCD-11 to between 1 in 50 and 1 in 10 (2 to 10%).

This is 400mL – 2L per 20L of ambient to hot water.

Once all parts have been removed from the equipment and hand washed with the LCD-11 solution, allow them to soak in a solution of AC-201 Acid CIP Cleaner for 5 minutes or more. Then remove the parts from the bath and re-assemble them on the equipment. Rinse equipment with potable water.

➤ **RINSE ALL FOOD-CONTACTING SURFACES WITH POTABLE WATER AFTER USING THIS PRODUCT.**

Available in: 5L, 20L, 200L

Agar Cleaning Systems maintains Safety Data Sheets (SDS) on all of its products. These sheets contain information that you may need to protect your employees and customers against health or safety hazards associated with our product. Agar Cleaning Systems recommends that you obtain a copy of the respective SDS sheet prior to using this product. The information in the Product Data Sheet is based on data we believe to be reliable. It is offered in good faith, but without guarantee, as conditions and methods of use of our product are beyond our control.