



1000 Western Drive
Brunswick, OH 44212
PHONE: 330/225-3200
FAX: 330/225-1499
www.columbiachemical.com

COLCLEAN SOAK 211L MC

LIQUID SOAK CLEANER ADDITIVE SYSTEM

11-07-13

DESCRIPTION & PROPERTIES

COLCLEAN SOAK 211L MC is a concentrated liquid builder-surfactant composition designed for use as an additive to liquid caustic soda to form a complete and ready to use soak cleaning solution. The resulting combination provides excellent detergency to remove processing oils and drawing compounds from steel surfaces.

ADVANTAGES

Liquid concentrates that are easy to pump, no dusting or caking like powdered cleaners.

Low heat of solution when dissolving - Less chance of boil over when making additions.

Allows use of conductivity controller for automatic additions using metering pumps.

OPERATING CONDITIONS

COLCLEAN SOAK 211L MC	4 to 7% by volume
50% Liquid Caustic	4 to 7% by volume
Ratio of COLCLEAN SOAK 211L MC to 50% Liquid Caustic	1:1
Temperature	160 to 190° F
Time	5 to 10 minutes or as required

Charge 3/4 of the water in the tank. Add the COLCLEAN SOAK 211L MC and mix.
Add liquid caustic slowly with constant agitation to prevent eruption. While still agitating, adjust to final volume with water. Heat the solution to operating temperature.

CONTROL PROCEDURE

1. Obtain a sample of the COLCLEAN SOAK 211L MC working solution in a clean container.
2. Pipette a 10 ml aliquot and transfer to a titrating flask.
3. Add 4 to 5 drops phenolphthalein indicator.
4. Titrate with 1 N HCl from red to a colorless endpoint. Add a few more drops of indicator solution. If the solution turns pink, add two more drops of 1 N HCl. Repeat until the solution remains colorless when the phenolphthalein indicator is added.
5. Record the number of mls. required.

Mls 1 N HCl x 0.58 = % by volume concentration of the 50% Liquid Caustic.
Add 1 gallon of COLCLEAN SOAK 211L MC for every 1 gallon of 50% Liquid Caustic added.

HANDLING PRECAUTIONS

Working personnel should wear rubber gloves, chemical splash goggles, rubber boots, and protective clothing when handling or making up solutions. Avoid contact with skin, eyes, and clothing. Do not take internally. Use with adequate ventilation. Wash thoroughly after handling. An eye/face fountain and deluge safety shower should be available in the work area.

In case of contact with additive or operating solution, immediately flush with large amounts of water for at least 15 minutes. Get immediate medical attention. Remove contaminated clothing and wash before reuse. If swallowed, do not induce vomiting. Give large amounts of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Read the MSDS before using this product. For industrial use only.

NON-WARRANTY

The data contained in this bulletin is believed by Columbia Chemical Corp. to be accurate, true, and complete. Since, however, final methods of use of this product are in the hands of the customer and beyond our control, we cannot guarantee that the customer will obtain the results described in this bulletin, nor can we assume any responsibility of the use of this product by the customer in any process which may infringe the patents of third parties.

