

923102

## \*MATERIAL SAFETY DATA SHEET\*

MEDICAL EMERGENCY ONLY, 24 HOUR SERVICE: 1-800-328-0026  
 Medical Calls from Outside of the USA: 612 292 4064 (USA)

INSTITUTIONAL DIV., Ecolab Inc. Product Information: 1-800-352-5326  
 Ecolab Ctr. St. Paul MN 55102 Date of Issue: January 28, 1999

## 1.0 IDENTIFICATION /

1.1 Product Name: 3X-RA

1.2 Product Type: Rinse Additive

1.3 Hazard Rating: Health - 1      Fire - 0      Reactivity - 0

++ SARA 313 Toxic Chemicals, If Present, Are Preceded by "#" ++

## 2.0 HAZARDOUS COMPONENTS /

(mg/m3)

		%	PEL	TWA
2.1 Citric acid	77-92-9	10	No	No
2.2 Sodium xylene sulfonate	1300-72-7	10	No	No
2.3 2-Phosphono-1,2,4-butanetricarboxylic acid	37971-36 -1	4	No	No
2.4 Also contains EO/PO copolymer (34%).				

PEL = OSHA 8 Hour Average in Air

TWA = ACGIH 8 Hour Average in Air

## 3.0 PHYSICAL DATA /

3.1 Appearance: Dark blue-green liquid; no odor.

3.2 Solubility in Water: Mixes with water in all proportions.

3.3 pH: 1.5 - 3.0 (100%)

3.4 Initial Boiling Point: Over 212 deg F

3.5 Specific Gravity: 1.091 - 1.131

## 4.0 FIRE AND EXPLOSION DATA /

4.1 Special Fire Hazards: None

4.2 Fire Fighting Methods: Use fog, foam, fine water spray, dry chemical or CO2.

## 5.0 REACTIVITY DATA /

5.1 Stability: Stable under normal conditions of handling.

5.2 Conditions to Avoid: Do not mix with anything but water.

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**6.0 SPILL OR LEAK PROCEDURES / USE PROPER PROTECTIVE EQUIPMENT**

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6.1 Cleanup and Disposal: Rinse small amounts to the sanitary sewer drain with plenty of water; mop up spills and rinse area thoroughly with water.

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**7.0 HEALTH HAZARD DATA / CAUTION**

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7.1 Effects of Overexposure to Concentrate:

Skin and Eyes: May cause minor irritation.

If Swallowed: May cause stomach distress, nausea or vomiting.

7.2 Note: Not listed as a carcinogen by OSHA, IARC, or NTP.

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**8.0 FIRST AID /**

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8.1 Eyes: Flush immediately with cool running water. Remove contact lenses, if used, and then flush again.

8.2 Skin: Flush skin with water, then wash with soap and water.

Remove contaminated clothing and wash before reuse.

8.3 If Swallowed: Rinse mouth; then drink 1 or 2 large glasses of

water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

IF IRRITATION OR DISCOMFORT PERSISTS, CALL A PHYSICIAN.

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**9.0 PROTECTIVE MEASURES /**

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9.1 CONCENTRATE:

Eyes: Eye protection is recommended.

Skin: Rubber gloves are recommended in case of continued contact with or immersion of hands in use solution.

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## 10.0 ADDITIONAL INFORMATION/PRECAUTIONS /

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10.1 Purpose of 01/28/99 issue: Add line 1.3 revise section 2,7,8,9.

KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.