



# MATERIAL SAFETY DATA SHEET

## AQUALAR CLEANING SOLUTION CONCENTRATE

PCN(s): 203, 247

Publication Date 11/28/05

REV: E

### 1. SUPPLIER AND EMERGENCY INFORMATION

L&R Manufacturing Company  
577 Elm Street, P.O. Box 607  
Kearny, NJ 07032 - 0607 USA

Product Information  
Call: 201-991-5330

#### Emergency Phone Numbers:

For emergencies involving a spill, leak, fire or accident contact:  
CHEMTREC - 800-424-9300  
within the United States or 703-527-3887  
for international collect calls.

### 2. COMPOSITION/INFORMATION ON INGREDIENT

Component	CAS Number	Percentage
WATER	7732-18-5	50-70
ISOPROPYL ALCOHOL	67-63-0	1-5
SODIUM COCOAMPHOACETATE	68390-66-9	20-30
Sodium Hydroxide	1310-73-2	1-3

### 3. HAZARDS IDENTIFICATION

**Physical appearance and odor:** Pale amber liquid with characteristic detergent type odor.

#### A: WARNING STATEMENT:

Good industrial hygiene practices should be used when handling this material.

**Acute Eyes:** Direct contact causes irritation, redness and possible tearing

**Acute Skin:** Prolonged or repeated contact causes redness, and drying of the skin.

**Acute Inhalation:** Breathing high concentrations of vapors or mists may cause irritation to the nose and drowsiness.

#### B: POTENTIAL HEALTH EFFECTS:

**Acute Ingestion:** Not known, but expected to cause irritation to the gastrointestinal tract, characterized by nausea, diarrhea, vomiting, abdominal pains.

**Chronic Effects:** This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

### 4. FIRST AID MEASURES

**Eye Exposure:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

**Skin Exposure:** Wash thoroughly with water. If irritation or redness develops, seek medical attention.

**Inhalation:** If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

**Ingestion:** Seek immediate medical attention. DO NOT INDUCE VOMITING.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Skin contact may aggravate existing skin disease.

### 5. FIRE FIGHTING MEASURES

#### FIRE HAZARD DATA:

**FLASH POINT:** 109 - 111 °F ( 42.8°C)

**METHOD USED:** Tag Closed Cup

**Flammability limits ( vol/vol% ) :** Lower: No Data Upper: No Data

**Extinguishing Media:** Extinguish with dry chemical, CO<sub>2</sub> or a BC/ABC extinguisher.

**Special Fire Fighting Procedures:** None known

**Unusual Fire and Explosion Hazards:** Product will burn under fire conditions. Closed containers may explode due to build up of pressure when exposed to extreme heat.

**Hazardous Decomposition Materials:** (under fire conditions) Oxides of nitrogen and carbon.

### 6. ACCIDENTAL RELEASE MEASURES

**Cleanup and Disposal of Spill:** Biodegradable product. Mop up spill and dispose of by dilution to a sanitary sewer system as permitted by local, state and federal regulations.

**Environmental and Regulatory Reporting:** Not required

### 7. HANDLING AND STORAGE

**Minimum/Maximum Storage Temperatures:** 39 to 120 °F. Protect from freezing. Freezing will NOT damage the product.

Product may be thawed in warm water and then mixed to assure homogeneity.

**HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**General:** These recommendations provide general guidance for handling of this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

**Exposure Guidelines:** Exposure limits are recommended worker breathing limits. The following limits apply to this material:

#### INGREDIENTS

Isopropyl Alcohol  
Sodium Cocoamphoacetate  
Sodium Hydroxide

#### LIMITS

400 PPM OSHA/ AACGIH TWA  
None established  
2 mg/ M<sup>3</sup> OSHA/PEL

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION CONTINUED

**Engineering Controls:** Normal room ventilation

**Respiratory Controls:** For reasonable uses of this material, respiratory protection should not be necessary.

**Eye/Face Protection:** Safety glasses to protect from splashing.

**Skin Protection:** Rubber or plastic gloves to avoid drying and irritation to the skin.

**Work Practice Control:** Normal hygiene in the work area should be taken when working with or handling this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Appearance:** Clear pale amber liquid.

**pH:** 13 + as concentrate

**Water Solubility:** Soluble

**Freezing Point Range:** < 32° F

**Vapor Pressure:** Not established

**Percent volatile by volume:** Approx. 70 - 80% as water

**Odor:** Detergent like odor.

**Specific Gravity:** 1.06 to 1.07

**Melting Point Range:** Not available

**Boiling Point :** 210- 212 ° F

**Vapor Density:** Not established

**V.O.C. ( calculated ) :** 0.43 lbs./ gal or 53.5 grams / l.

## 10. STABILITY AND REACTIVITY

### Chemical Stability:

This material is stable under normal handling and storage conditions as described in Section 7.

**Conditions to be avoided:** Heat, open flame

**Materials/Chemicals to be avoided:** Strong acids, strong oxidizing agents, aluminum.

**Decomposition type:** Thermal Oxides of carbon and nitrogen.

**Hazardous Polymerization:** WILL NOT OCCUR

**Avoid the following to inhibit hazardous polymerization:** NOT APPLICABLE

## 11. TOXICOLOGICAL INFORMATION

**Acute Eye Irritation:** Irritating to eyes.

**Acute Skin Irritation:** No test data found for product.

**Acute Dermal Toxicity:** No test data found for product.

**Acute Respiratory Irritation:** No test data found for product.

**Acute Inhalation Toxicity:** No test data found for product.

**Acute Oral Toxicity:** LD50 (rat) = 17.2 ml/kg for sodium cocoamphoacetate

LD50( rat ) =3600 mg/kg for isopropyl alcohol

LD50( mouse) = 40 mg/kg. For sodium hydroxide

**Chronic Toxicity:** This product does not contain any substances that are considered by OSHA, NTP, IARC OR ACGIH to be a probable or suspected human carcinogens. No additional test data was found for this product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** No data found.

## 13. DISPOSAL CONSIDERATIONS

This product is biodegradable and can be disposed in sanitary sewer system where permitted by local, federal and state regulations.

## 14. TRANSPORTATION INFORMATION

For domestic ground transport : **ORM-D.** For containers over one gallon and for export: Flammable liquids, corrosive n.o.s.( Contains isopropanol, sodium hydroxide) 3, UN 2924, PG III. Do not stack cartons more than five high.

## 15. REGULATORY INFORMATION:

**Inventory Issues:** All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS/ELINS chemical listings.

## 16. OTHER INFORMATION

### National Fire Protection Association

Hazard Rating, NFPA

Health      Flammability      Reactivity      General

2                      2                      0                      --

### MSDS CHANGES

REV

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DATE

11/28/05

DESCRIPTION OF CHANGE

Reissued

**Disclaimer:** The information herein is given in good faith but no warranty expressed or implied is made

Prepared By: L&R Manufacturing Company

Date:03/01/99

Product Name: **AQUALAR CLEANING SOLUTION CONCENTRATE**