

# MATERIAL SAFETY DATA SHEET

## SECTION 1 PRODUCT IDENTIFICATION

Flynn Distributors  
3646 Zoar Road  
Snellville, Georgia 30039  
Inquiry Phone: 770 714 8656  
Emergency Phone: (800) 535-5053  
Prepared on 6/1/01

**PRODUCT NAME:** CITRIC ALUMINUM CLEANER  
**PRODUCT CODE:** 11660 conc

NFPA hazard codes:                      NFPA acute hazard ratings:  
0 = Least                      3 = High                      Health: 3  
1 = Slight                      4 = Extreme                      Flammability: 0  
2 = Moderate                                           Reactivity: 2

## SECTION 2 CHEMICAL COMPOSITION

Note: List all CERCLA hazardous substances at 1% or greater and CARCINOGENS at 0.1% or greater.

| INGREDIENT (chemical name)    | CAS#      | % range | TLV / PEL | TWA | STEL / Ceiling Skin |
|-------------------------------|-----------|---------|-----------|-----|---------------------|
| Citric Acid                   | 77-92-9   | <30     | N/A       | N/A | N/A                 |
| Nonylphenol Poly(oxyethylene) | 9016-45-2 | <10     | N/A       | N/A | N/A                 |

Note:

## SECTION 3 EMERGENCY & FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. **SKIN CONTACT:** Immediately flush exposed area with water. Get immediate medical attention. **INHALATION:** Remove individual to fresh air. Get immediate medical attention. **INGESTION:** Do not induce vomiting. Dilute by giving water. Get immediate medical attention.

NOTE TO PHYSICIAN:

## SECTION 4 PHYSIOLOGICAL EFFECTS

**PRIMARY ROUTE(S) OF ENTRY INTO BODY:** Skin contact, Inhalation, Ingestion.

**ACUTE EFFECTS:** Eyes: Redness, burning, watering. Skin: Redness, burning, irritation. Inhalation: Irritation, burning, coughing. Ingestion: Burning sensation, nausea.

**CHRONIC EFFECTS:** None known.

## SECTION 5 OCCUPATION CONTROL PROCEDURES

**VENTILATION:** Local exhaust.

**PERSONAL PROTECTION:**

Respirator type: None required if concentration is below TLV/PEL. Otherwise use NIOSH approved CCROV or better respirator.

Gloves: Chemical resistant gloves recommended.

Eye Protection: Chemical splash goggles.

## SECTION 6 PHYSICAL DATA

Appearance/odor: Clear orange / citrus

Physical state: Liquid

Boiling Point: 212° F

Freeze Point: 30° F

Specific Gravity: 1.15

pH concentrate: 2.1-3.5

1% pH dilution: 2.5-4.5

Solubility in water: Complete

Vapor pressure: 50 mmHg

Vapor density (air=1): >1

Evaporation rate (water = 1): <1

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## SECTION 7 FIRE & EXPLOSION DATA

Flash point: None.

Method: T.C.C.

Flammable (explosive) limits in air: N/A.

Suitable extinguishing media: Water / foam.

Hazardous combustion bi-products: None.

Recommended fire fighting procedures: Firefighters should wear waterproof protective clothing.

Unusual fire & explosive hazards: None.

## SECTION 8 REACTIVITY DATA

Stability: Stable.

Conditions to avoid: None known..

Hazardous decomposition products: Carbon monoxide.

Hazardous polymerization: Will not occur.

Incompatibility:

Material to avoid: Strong alkalines.

Corrosive action on material: Metals.

## SECTION 9 STORAGE & HANDLING PRECAUTIONS

Storage: Store at temperatures below 120° F. Do not allow to freeze.

Handling: Wear proper gloves, boots, eye and face protection when handling.

Precautionary labeling: Corrosive.

## SECTION 10 ENVIRONMENTAL INFORMATION

Spill or leak procedures:

Small spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Large spill/leak: Neutralize with sodium carbonate or sodium bicarbonate. Collect solution in containers for disposal. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

Spill reportable quantity: N/A

Waste disposal method: Consign to waste facility approved by federal, state, and local regulations. Do not flush to sewer or discharge to natural waterways as this product may be toxic to aquatic organisms.

RCRA or appropriate waste classification: N/A.

Procedures for handling empty containers: Triple rinse.

Environmental toxicity data: Surfactants are biodegradable.

Other regulatory controls:

Is material classified under the CLEAN WATER ACT (USA) or appropriate water regulations as:

Toxic pollutant? No.

Hazardous substance (SECTION 302)? NO.

If yes, reportable quantity (R.Q.). N/A.

Is material classified under the CLEAN AIR ACT (USA) or appropriate CLEAN AIR regulations as:

Hazardous air pollutant (SECTION 12)? No.

Indicate country/regulatory agency which specifies requirements: USA-DOT/ IMO  
Shipping name: COMPOUND, CLEANING, LIQUID (not regulated)

Hazard class: N/A

Identification number: N/A

Packing Group: N/A

Labels required: Product,

PRODUCT NAME: CITRIC ALUMINUM CLEANER conc