

**Material Safety Data Sheet**

Quick Identifier:  
Citri-Solve

**Section 1**

Metro-Chem, Inc.  
24 Pennsylvania Avenue  
Post Office Box 401  
Kearny, NJ 07032

Emergency Phone No. 800-424-9300  
Other Information 973-589-2800  
Date Prepared: September 19, 1994  
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**Section 2 Hazardous Ingredients\identity**

HAZARDOUS COMPONENT(S) (CHEMICAL & COMMON NAME(S): Alkylphenol Ethoxylate

OSHA PEL: n/a                      ACGIH TLV: n/a                      OTHER EXPOSURE LIMITS: n/a

CAS NO. 9016-45-9

**Section 3 Physical & Chemical Characteristics**

BOILING POINT: 240 F

SPECIFIC GRAVITY (H2O=1): 1.049

VAPOR PRESSURE (mm Hg): n/a

VAPOR DENSITY (Air=1): n/a

SOLUBILITY IN WATER: complete

REACTIVITY IN WATER: none

APPEARANCE AND ODOR: amber liquid, orange scent

MELTING POINT: n/a

**Section 4 Fire and Explosion Hazard Data**

FLASH POINT: non flash point      METHOD USED: n/a

FLAMMABLE LIMITS IN AIR % BY VOLUME:

LEL LOWER: not established

UEL UPPER: not established

AUTO-IGNITION TEMPERATURE: n/a

EXTINGUISHER MEDIA: water foam and/or other suffocating agents

SPECIAL FIRE FIGHTING PROCEDURES: Standard fire fighting techniques.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with full face piece when there is a possibility of exposure to smoke, fumes, or hazardous decomposition products.

**Section 5 Physical Hazards (reactivity data)**

STABILITY: Stable

CONDITIONS TO AVOID: none

INCOMPATIBILITY (MATERIALS TO AVOID): organic chlorine bleach

HAZARDOUS DECOMPOSITION PRODUCTS: none

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: excessive heat

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## Section 6 Health Hazards

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1. ACUTE (Immediate): none                      2. CHRONIC (Delayed Effect): Prolonged skin contact may cause drying and cracking of the skin.

SIGNS AND SYMPTOMS OF EXPOSURE: No evidence of adverse effects from available information.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: none known

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: NO              I.A.R.C. MONOGRAPHS: NO              OSHA: NO

EMERGENCY AND FIRST AID PROCEDURES:

### ROUTES OF ENTRY

INHALATION: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

EYES: Irritant. Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention.

SKIN: Irritant. Wash affected area.

INGESTION: If victim is conscious and able to swallow, have victim drink water or milk to dilute. Do not give sodium bicarbonate. Induce vomiting. Never give anything by mouth to an unconscious individual. Call a physician or poison control center immediately.

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## Section 7 Precautions and Spill/Leak Procedures

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Minimum feasible handling temperatures would be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

OTHER PRECAUTIONS: none

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Recommended exposure limits have not been established for this material. Wear appropriate respiratory protection and protective clothing. Contain spilled material. Where necessary collect using absorbent media.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with all applicable laws and regulations.

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## Section 8 Special Protection Information/Control Measures

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RESPIRATORY PROTECTION (Specify Type): NIOSH approved respirator recommended.

VENTILATION: LOCAL EXHAUST: adequate                      MECHANICAL, SPECIAL, OTHER: n/a

PROTECTIVE GLOVES: chemical gloves recommended              EYE PROTECTION: safety glasses required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: none required

WORK/HYGIENIC PRACTICES: eyewash stations should be handy.

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