

**MATERIAL SAFETY DATA SHEET**

(Complies with 29 CFR 1910.1200)

**SECTION I**

CHEMCO INTERNATIONAL INC.  
1427 WHITE HORSE ROAD  
GREENVILLE, SC 29605  
(864) 299-3030

PRODUCT NAME: Citrosol

PRODUCT CODE: 0340

CHEMICAL NAME:

CAS #:

MIXTURE (X)

SINGLE SUBSTANCE ( )

HMIS RATING

HEALTH:1

FLAMMABILITY:2

REACTIVITY:0

PERSONAL PROTECTION: B

**SECTION II**

**HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENT

%

HAZARD DATA

D-Limonene

No TLV Established

(CAS 5989-27-5)

**SECTION III**

**PHYSICAL DATA**

BOILING POINT: 218°F

SPECIFIC GRAVITY: 1

VAPOR PRESSURE: N/A

PERCENT VOLATILE BY VOLUME: 40%

VAPOR DENSITY: >1 (air = 1)

EVAPORATION RATE (water = 1): N/A

SOLUBILITY IN WATER: Emulsifies, Fully Soluble in water

APPEARANCE AND ODOR: Clear, orange liquid. Citrus odor.

pH AS RECEIVED: 10.0 - 10.5

**SECTION IV**

**FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): 122°F Tag Closed Cup

FLAMMABILITY LIMITS: No Data

EXTINGUISHING MEDIA: Foam, dry chemical or water fog

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

**SECTION V**

**HEALTH HAZARDS DATA**

THRESHOLD LIMIT VALUE: N/A, Mixture, see hazard information

EFFECTS OF OVEREXPOSURE: Drying of skin, irritation of mucous membranes when ingested or exposed to vapor or aerosol concentrations.

EMERGENCY FIRST AID PROCEDURES: Flush immediately with copious amounts of water if the product gets in the eyes, skin or mucous membranes. Do not induce vomiting if ingested. Get immediate medical assistance.

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**SECTION VI**  
**REACTIVITY DATA**

STABILITY:                    STABLE: X                    UNSTABLE:  
CONDITIONS TO AVOID: High heat, sparks and open flame  
INCOMPATIBILITY (MATERIALS TO AVOID): Nitric Acid, Sulfuric Acid and strong oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: None  
HAZARDOUS POLYMERIZATION MAY OCCUR:                    WILL NOT OCCUR: X

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**SECTION VII**  
**SPILL OR LEAK PROCEDURES**

SPILL RESPONSE PROCEDURES: Use absorbent for small spills. Dike and collect larger spills for possible material recovery, using explosion proof equipment to eliminate sparks.  
WASTE DISPOSAL METHOD: Landfill per federal, state and local laws and regulations or incinerate using approved methods.

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**SECTION VIII**  
**SPECIAL PROTECTION INFORMATION**

EYE PROTECTION: Glasses and goggles  
RESPIRATORY PROTECTION: Organic vapor mask recommended  
SKIN PROTECTION: Gloves and protective clothing  
OTHER PROTECTION: None  
VENTILATION RECOMMENDATION: Since the vapor density is greater than air, avoid enclosed spaces and low lying, vapor collection areas without mechanical ventilation or local exhaust.

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**SECTION IX**  
**SPECIAL PRECAUTIONS**

HYGIENE PRACTICES IN HANDLING AND STORAGE: Observe all recommended handling, storage and safety equipment and procedures recommended in this document. Maintain ventilation in areas of use and avoid all unnecessary exposure to this product. Plastic containers are not recommended for long term storage of this product.  
OTHER PRECAUTIONS: None

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**SECTION X**  
**PREPARER AND DISCLAIMER**

The information and recommendations contained herein are to the best of CHEMCO's knowledge and belief, accurate and reliable as of the date issued. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use of this product is beyond the control of CHEMCO, no guarantee, expressed or implied, is made by CHEMCO.

PREPARED BY: D. Newhouse  
CHEMCO INTERNATIONAL INC.  
1427 WHITE HORSE ROAD  
GREENVILLE, SC 29605  
864-299-3030

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