

MATERIAL SAFETY DATA SHEET

Abbreviations used on this Material Safety Data Sheet:

N/av. = Not available, N/est. = Not established, N/Ap. = Not applicable, N.D. = Not Detected, ppm = parts per million, TLV = Threshold Limit Value.
NFPA Hazard Rating: 4 - Extreme, 3 - High, 2 - Moderate, 1 - Slight, 0 - None, X - Blank

NFPA HAZARD RATING:
HEALTH - 1 FLAMMABILITY - 0, REACTIVITY - 0

SECTION 1 - PRODUCT IDENTIFICATION AND USE

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| PRODUCT IDENTIFIER: Citro PPE Soak and Wash | | |
| PRODUCT DESCRIPTION: Water based cleaner and solvent | | |
| MANUFACTURER'S NAME: EMCO Industries, Inc. | SUPPLIERS NAME: | |
| STREET ADDRESS: 2590 Jason Court | STREET ADDRESS: | |
| CITY: Oceanside CA | CITY: | |
| POSTAL CODE: 92056 | EMERGENCY TELEPHONE NUMBER: 1 (800) 424-9300 | POSTAL CODE EMERBENCY TELEPHONE NUMBER |

SECTION 2 - HAZARDOUS INGREDIENTS

| | % | CAS NUMBER | ACGIH, TLV-TWA, TLA-STEL | OSHA PEL-TWS |
|-----------------|---|------------|--------------------------|--------------|
| d-Limonene | - | 5989-27-5 | N.e., N.e. | N.e. |
| 2-butoxyethanol | - | 111-76-2 | 25 ppm (skin), N.e. | 50 ppm |

None of these ingredients are subject to the reporting requirements of SARA, III, 40 CFR 372

SECTION 3 - PHYSICAL DATA

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| PHYSICAL STATE: Liquid | ODOUR AND APPEARANCE: Thin opaque liquid with strong citrus odour | | | ODOUR THRESHOLD N.e. |
| VAPOUR PRESSURE: (mm-hg) N.e. | VAPOUR DENSITY: (Air = 1) >1 | EVAPORATION RATE: (n = Butyl acetate = 1) <1 | BOILING POINT: 196F | FREEZING POINT: 32F |
| pH: 8.5 | SPECIFIC GRAVITY: (Water = 1) 0.98 | SOLUBILITY: Completely soluble in water | | |

SECTION 4 - FIRE AND EXPLOSION DATA

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| FLAMMABILITY: IF YES, UNDER WHICH CONDITIONS? NO This product is classified combustible only. (29CFR 1910.1200) | | |
| MEANS OF EXTINCTION: Use dry chemical, carbon dioxide, or alcohol foam. | | |
| SPECIAL PROCEDURES: Use water spray to cool containers below the flash point or to disperse vapour. Fire crews should wear self-contained breathing apparatus. | | |
| FLASHPOINT AND METHOD: N.D. @ 212F° | UPPER FLAMMABILITY LIMIT: N.e. | LOWER FLAMMABILITY LIMIT: (% BY VOLUME) N.e. |
| AUTOIGNITION TEMPERATURE: 711F° | HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon | |
| EXPLOSION DATA: | | |
| SEBSITIVITY TO IMPACT: No | SENSITIVITY TO STATIC DISCHARGE: No | |

SECTION 5 - REACTIVITY DATA

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| CHEMICAL STABILITY IF NO, UNDER WHICH CONDITIONS? YES X NO Normally stable. May oxidize under prolonged exposure to air. Hazardous polymerization does not occur. | |
| INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES? YES X NO Avoid strong oxidizing agents due to increased risk of fire or explosion. | |
| REACTIVITY, AND UNDER WHAT CONDITIONS? Not reactive under normal conditions. | |
| HAZARDOUS DECOMPOSITION PRODUCTS: None reported. | |

SECTION 6 - TOXICOLOGICAL PROPERTIES

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| ROUTE OF ENTRY: | | | |
| Skin: Inhalation | Major Major | Ingestion: Eye: | Minor Major |
| EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Irritation can result from liquid, mist or vapour contact respiratory tract, eyes and skin. Absorption through skin or inhalation of vapour at normal temperatures poses minimal hazard. Ingestion of large amounts will cause diarrhea. Aspiration can damage lungs and cause death. | | | |
| EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Prolonged or repeated exposure can defat skin and lead to dermatitis. May cause allergic skin response in some persons. Intense long-term exposure may cause kidney problems. | | | |
| EXPOSURE LIMITS: ACGHI-TLV-TWA is 25 ppm for 2-but oxyethanol. "Skin" notation | IRRITANCY OF PRODUCT: As above. | SENSITIZATION TO PRODUCT: d-Limonene is a sensitizer | CARCINOGENICITY: Not reported by OSHA,IARC,NTP,ACGIH |
| TERATOGENICITY: Not reported. | REPRODUCTIVE TOXICITY: Not reported | MUTAGENICITY Not reported. | SYNERGISTIC PRODUCTS: Not reported. |

SECTION 7 - PREVENTIVE MEASURES

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| PERSONAL PROTECTIVE EQUIPMENT: | | |
| GLOVES (SPECIFY): Neoprene, Nitrile, Butyl rubber or Polyvinyl alcohol are recommended. | RESPIRATOR (SPECIFY): No respiratory protection is required under normal conditions of use. Consider the use of respiratory protection in confined spaces or at elevated temperatures. | EYE (SPECIFY): Chemical safety goggles recommended. A face shield may be warranted in some applications. |
| FOOTWEAR (SPECIFY): Impervious boots using same materials as for gloves | CLOTHING (SPECIFY): Coveralls or other suitable protective clothing | OTHER (SPECIFY): Emergency eye-wash and shower should be available. |
| ENGINEERING CONTROLS (SPECIFY, VENTILATION ENCLOSED PROCESS): Mechanical ventilation, both dilution and local exhaust may be utilized to keep exposure below the exposure limit. Extra ventilation should be provided in enclosed spaces and in hot weather. | | |
| LEAK AND SPILL PROCEDURE: Soak up small spills with absorbent materials. Prevent run-off from reaching sewers, storm drains or natural water bodies. No Reportable Quantity according to 40 CFR 302. | | |
| WASTE DISPOSAL: Dispose of according to federal, state, and local laws. | | |
| HANDLING PROCEDURES AND EQUIPMENT: Avoid generating mists. Keep containers closed when not in use. Do not freeze. Ground containers to avoid static accumulation. | | |
| STORAGE REQUIREMENTS: Empty containers may contain a hazardous residue. Store in cool, well ventilated area away from incompatible materials and ignition sources. | | |
| SPECIAL SHIPPING INFORMATION: COMBUSTIBLE LIQUID (29CFR 1910.1200) | | TDG. UN NUMBER: Non-regulated as packaged USA D.O.T. (16CFR 172.101) |

SECTION 8 - FIRST AID MEASURES

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| SPECIFIC MEASURES: INHALATION: Remove victim to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Seek medical care. INGESTION: Do not induce vomiting. If conscious, give victim cold water. Never give anything by mouth to an unconscious person. Seek medical attention. EYE CONTACT: Flush eye for 15 minutes with water while retracting eyelids. Seek medical attention. SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water. Launder clothing before reuse. Seek medical attention if irritation persists. |
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SECTION 9 - PREPARATION DATE OF MSDS

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| PREPARED BY: EMCO Industries, Inc. | PHONE NUMBER: EMCO Industries, Inc. 1-888-727-3230 | DATE: April 18th, 2004 |
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