

MATERIAL SAFETY DATA SHEET

CHEMCO INDUSTRIES, INC.
5731 Manchester Ave., St. Louis, MO 63110



DATE OF ISSUE: January, 05, 2006

GENERAL INFORMATION # : 314-647-1888
EMERGENCY TELEPHONE # : (800) 854-4236

I-PRODUCT IDENTIFICATION

ORANGE SOLV

PRODUCT CODE: #175

CHEMICAL FORMULATION: CITRUS BASED CLEANER, DEGREASER & DRAIN MAINTAINER

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH:2 FLAMMABILITY: 3 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
NON-HAZARDOUS					
ORANGE TERPENES	5989-27-5		NE		
HYDROCARBONS (PETROLEUM DISTILLATES)	64741-65-7		NE		
SURFACTANTS			NE		

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (C/F): 349°F	MELTING POINT: N/A
VAPOR PRESSURE (mm Hg.)Psig 1.4	SPECIFIC GRAVITY (WATER = 1): 0.84
VAPOR DENSITY (AIR = 1): 0.012	VOC CONTENT (% by weight):
SOLUBILITY IN WATER: EMULSIFIABLE	EVAPORATION RATE (Water = 1): 1
	pH: 13.50
APPEARANCE AND ODOR: LIGHT AMBER BROWN WITH AN ORANGE FRAGRANCE	

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C): 125°F TCC

(TEST METHOD):

FLAMMABLE LIMITS: N/E

UPPER: 6.0%

LOWER: 0.7%

EXTINGUISHING MEDIA: DRY POWDER, FOAM

SPECIAL FIRE FIGHTING PROCEDURES: AVOID EXPOSURE TO FUMES OR VAPORS. WEAR SELF-CONTAINED POSITIVE PRESSURIZED BREATHING APPARATUS MSHA/NIOSH APPROVED OR EQUIVALENT

UNUSUAL FIRE AND EXPLOSION HAZARD: KEEP AWAY FROM HEAT, SPARKS & OPEN FLAME. USE WATER SPRAY TO COOL ADJACENT FIRE EXPOSED CONTAINERS. COMBUSTIBLE

V - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY: CATIONICS (SEE ABOVE)

CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS, SPARKS & FUMES

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ORANGE SOLV

PRODUCT CODE: #175

VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? YES SKIN? DERMAL LD50 5g/Kg INGESTION? ORAL LD50 (RATS) 5g/Kg
HEALTH HAZARDS (ACUTE & CHRONIC): N/E

CARCINOGENICITY: NTP? NE IARC MONOGRAPHS? NE OSHA REGULATED? YES

EFFECTS OF OVEREXPOSURE

IF IN EYES: IRRITATION

IF ON SKIN: IRRITATION

IF SWALLOWED:

IF INHALED:

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH FLOWING WATER FOR 15 MINUTES & SEE A PHYSICIAN.

IF ON SKIN: FLUSH WITH FLOWING WATER FOR 15 MINUTES & SEE A PHYSICIAN IF IRRITATION PERSISTS.

IF SWALLOWED: GIVE MILK OR WATER TO DILUTE MATERIAL & DO NOT INDUCE VOMITING. SEE A PHYSICIAN.

IF INHALED: REMOVE TO AREA OF FRESH AIR

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: SOAK UP ON ABSORBENT MATERIAL OR FLUSH AWAY WITH WATER.

WASTE DISPOSAL METHOD: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES.

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Local Exhaust: PREFERRED Mechanical: ACCEPTED AT POINT OF VAPOR RELEASE
Special: N/A Other: AVOID BREATHING OF VAPORS

RESPIRATORY PROTECTION: NONE REQUIRED WITH ADEQUATE VENTILATION.

PROTECTIVE GLOVES: IMPERVIOUS RUBBER, SOLVENT RESISTANT

EYE PROTECTION: SPLASH PROOF CHEMICAL GOGGLES

OTHER PROTECTIVE EQUIPMENT: EYEWASH FACILITIES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AWAY FROM HEAT OR OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT CONTAMINATE WATER. FOOD OR FEED.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. DO NOT GET IN EYES, ON SKIN OR CLOTHING REMOVE AND WASH CONTAMINATED CLOTHING BEFORE USE.

WORK/HYGIENIC PRACTICES : PRACTICE GOOD PERSONAL HYGIENE. WASH AFTER HANDLING

REVISION DATE: January 05, 2005

Prepared By:

DATE OF ISSUE: January 05, 2005

This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Chemco Industries assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material such vendees or users assume all risks associated with the use of this material.