

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
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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

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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

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