

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

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I - Product Identification

Organic Acid Cleaner

PRODUCT CODE: 0143

CHEMICAL FORMULATION: Acidic cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Phosphoric acid	35.0-45.0	1 mg/m ³	1 mg/m ³	Y	N	N	7664-38-2
Poly (oxyethylene) nonylphenol	1.00-5.00	N/E	N/E	N	N	N	9016-45-9

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 (°F): N/D SPECIFIC GRAVITY (WATER = 1): 1.260
VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): < 1.0
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): ~ 1.0
SOLUBILITY IN WATER: Soluble pH: < 1.0
APPEARANCE AND ODOR: Clear, yellow/green liquid; characteristic acid odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None. (TEST METHOD): Closed cup
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must be equipped with full protective gear including self-contained breathing apparatus. Fire may produce hazardous fumes. Cool fire-exposed containers with water fog.
UNUSUAL FIRE AND EXPLOSION HAZARD: Material will react with metals to liberate hydrogen, which is a flammable gas.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Alkaline materials, metals, metal salts, sulfides and sulfates.**CONDITIONS TO AVOID:** None.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Corrosive. Severe irritation, burns, destruction of tissue. Damage may be permanent.**IF ON SKIN:** Corrosive. Severe irritation, burns, destruction of tissue.**IF SWALLOWED:** Severe burns to mucous membranes, destruction of tissue, DANGER-may be fatal if swallowed.**IF INHALED:** Irritation of respiratory tract, pulmonary edema.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention**IF ON SKIN:** Remove contaminated clothing and launder separately before reuse. Wash with soap and water for at least 15 minutes. If irritation persists, obtain medical assistance.**IF SWALLOWED:** Contact physician or poison control center immediately. Give 1 to 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.**IF INHALED:** Remove person to fresh air and call physician.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill and ventilate area. Soak up spilled material with inert absorbent material and place in a properly marked closed container for disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Recommended**PROTECTIVE GLOVES:** Acid resistant gauntlet type.**EYE PROTECTION:** Goggles and/or face shield.**OTHER PROTECTIVE EQUIPMENT:** Protective clothing, emergency shower and eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Corrosive material. Store away from alkaline materials and reactive chemicals. Do not mix with chlorine bleach, ammonia, or any other cleaning chemical. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: Compounds, cleaning liquid (phosphoric acid)**DOT CLASS:** 8**DOT ID NUMBER:** UN1760**DOT PACKING GROUP:** III

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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