



ChemWorld.com
Worldwide Online Ordering and Consulting

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ChemWorld Residual Zero

Light to Medium-Duty Evaporative Solvent and Stamping/Drawing Lubricant

ChemWorld Residual Zero is a light duty to medium duty evaporative odorless wipe solvent and stamping/drawing lubricant designed to be applied manually, with automated lubricant equipment, or in tank pre-dip operations. ChemWorld Residual Zero greatly reduces the risk to personnel because it does not contain any extremely hazardous chlorinated chemicals. ChemWorld Residual Zero evaporates completely and does not leave a residue on the parts after evaporation.

PHYSICAL PROPERTIES

Appearance	Clear thin liquid
Odor	None to very mild solvent
Flash Point	145°F
HMIS Rating	1,2,0
Specific Gravity	0.780

APPLICATION

Tank - Use full strength at room temperature. Immerse the parts, remove and air dry.

Spray - Use full strength. Apply by non-atomizing spray, brush or wipe on to clean soils. Allow to air dry.

PRODUCT SAFETY

Materials: Safe on all metals. PERSONNEL: SOLVENT LIQUID. DO NOT BREATHE VAPORS. Avoid prolonged contact with skin. Should contact with eyes occur, rinse thoroughly with water and seek medical attention. See MSDS information sheet for complete safety details.

APPLICATION

Use full strength. Apply by low-atomizing spray, brush or wipe on to clean soils. Allow to air dry.

LOW SUBSTRATE ATTACK:

ChemWorld Residual Zero is completely non-corrosive to metals such as steel, copper, aluminum, and magnesium due to low sulfur and acid content, typically less than 1 ppm.



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HIGHER CLEAN RATES ATTAINABLE WITH EQUAL EVAPORATION GRADES

ChemWorld Residual Zero has an evaporation rate slightly slower than mineral spirits.

LOW TOXICITY

ChemWorld Residual Zero exhibits low acute, subchronic, tetatogenic and ecological toxicity. ChemWorld Residual Zero meets Food and Drug Administration (FDA) requirements for use in specified direct and indirect food applications. ChemWorld Residual Zero has assigned occupational exposure limits (OEL) of 300 ppm, versus 100 ppm for most mineral spirit and kerosene solvents.

LOW ODOR FOR IMPROVED WORKER COMFORT

Odor level is commonly quantified by an Effective Dilution Value or ED₅₀. The ED₅₀ is the concentration in air at which 50% of the population is likely to detect the odor of the solvent. A higher ED₅₀ value indicates a higher concentration in air before odor is detectable. As seen below, ChemWorld Residual Zero exhibits much lower odor than mineral spirits.

LOW SKIN IRRITATION

With purity approaching that of USP white oil, ChemWorld Residual Zero solvents has minimal effect on the skin - less than that of conventional aliphatic solvents.

PROPERTIES

KB Solvency: 27

Surface Tension Dynes/cm 25°C: 25.9

Vapor Pressure mmHg, 20°C: 0.9

Aromatics Content Wt%: <0.02

Flash Point F: 142°F

Occupation Exposure Limit (ppm): 300

ED50, PPM (VOL): 120.0 or greater

Packaging

Bulk, 330-gallon, 275-gallon, 55-gallon, and 5-gallon containers.