



Global Specialty Products

USA, Inc

OPTIMATM - 2000 CDF

AQUEOUS CIRCUIT DEFLUXER - ZERO VOC

Environmentally safe, non-hazardous, non-flammable, non-regulated, non-HAPs, Ozone-safe designed for aqueous cleaning (defluxing and stripping) of rosin and ionic contamination from all types of Printed Wiring Boards. The product is applicable in commercially available in-line or batch cleaning electronic assemblies including ultrasonic, high pressure spray and spray under immersion.

SOILS REMOVED:

All types of flux or solder paste	Ionic Contamination
Grinding, Finishing & Polishing Compounds	Crater & Lithium Grease
Water/Solvent Based Inks	Finger Prints & Particles
Automotive, Mineral Vegetable & Polybutane Oils	Sulfur Based Cutting Fluids
Cosmolines, Lipstick & Cycloparaffins	Lapping & Drawing Compounds
Acrylic Latex Polymers	Adhesives

EASY TO USE - NO RESIDUES FOLLOWING RINSE:

Dilute down with water 15% by volume, easy to rinse.

ENVIRONMENTALLY FRIENDLY - NON FLAMMABLE - BIODEGRADABLE:

NO Mineral Spirits, Phenols, Butyl Cellosolve, Acetone, MEK, Xylene, Toluene or Methylene Chloride
No VOC's, SARA Title 313 or HAPPS Reporting
Minimum safety, handling & storage is required.

WORKER FRIENDLY:

Non-carcinogenic, non-mutagenic, non-teratogenic

LONG TERM RUST PROTECTION - WIDE MATERIAL COMPATIBILITY:

Compatible and non corrosive on various metals, plastics, glass and ceramics

TYPICAL PROPERTIES

Appearance	Clear Yellow Liquid	Flash Point (°F)	>200
Odor	Mild	Surface Tension (dynes/cm)	24
pH (10% solution in water @ 68 °F)	10.5 - 11.0	Ideal Operating Temp (°F)	110 - 160
pH (Full Strength)	10.8 - 11.0	Ideal Operating Concentration	8 - 15%
Specific Gravity (@ 68 °F)	1.07 - 1.08	Weight/Gal. (lbs. /gal.)	9.0

CLEANING PROCESS:

OPTIMA™ - 2000 CDF AQUEOUS CIRCUIT DEFLUXER is supplied as a liquid concentrate. Use this product diluted down with deionized water only at 15% concentration by volume, at an operating temperature range of 135 °F - 160 °F. After cleaning with OPTIMA™ - 2000 CDF AQUEOUS CIRCUIT DEFLUXER, PARTS SHOULD BE RINSED USING DEIONIZED WATER. Use filtered hot air to dry out.

SUBSTRATE METALS:

OPTIMA™ - 2000 CDF AQUEOUS CIRCUIT DEFLUXER is formulated specifically for cleaning circuit boards, chips and other electronic components. The product is safe on all ferrous and non-ferrous metals including stainless steel, carbon steel aluminum alloys, MAGNESIUM, TIN, BRASS AND COPPER ALLOYS. NOTE: FOR aluminum, MAGNESIUM, TIN, BRASS AND COPPER ALLOYS Do NOT EXCEED OPERATING TEMPERATURE OF 135 °F.

DISPOSAL:

WASTE DISPOSAL: OPTIMA™ - 2000 CDF AQUEOUS CIRCUIT DEFLUXER is non-hazardous. It contains no VOC's , NO ODC's, No Glycol Ethers, completely water-miscible and biodegradable. The product is non-reactive, non-corrosive and is easy to dispose of. Small quantities (virgin material), may be disposed of in sewer. Large quantities should be disposed of in accordance with Local Ordinances for detergent products. The OPTIMA™ - 2000 CDF AQUEOUS CIRCUIT DEFLUXER containing any questionable hazardous materials should be characterized for heavy metals, ions and VOC's and disposed of according to Federal, State and Local Regulations which may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. GSP HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION.

HMIS RATING:

Health 1 Fire 0 Reactivity 0

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