



TECHNICAL DATA

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266 CITROL® CONCENTRATE

Citrol® Concentrate is a concentrated heavy-duty, water dilutable, emulsifiable, industrial strength, biodegradable, citrus base cleaner and degreaser. Citrol® Concentrate is designed for use in almost any industrial, transportation or general plant maintenance cleaning and degreasing operation. Citrol® Concentrate is an excellent replacement for hazardous aliphatic, aromatic, chlorinated, fluorocarbon, alkaline, acidic or petroleum solvent base cleaners and degreasers.

Citrol® Concentrate is specially formulated from a combination of organic citrus based solvents and a multi-component surfactant-emulsifier system. This unique combination provides Citrol® Concentrate with the ability to rapidly penetrate and remove a wide range of different soils, dirt and inks. Citrol® Concentrate's formulation does not contain any unacceptable petroleum distillates, petroleum hydrocarbons, chlorinated or chlorofluorocarbon type solvents.

When used in a concentrated form or at the recommended dilution ratios with water Citrol® Concentrate will provide the following benefits and features:

1. Rapid penetration of built-up grease, dirt, grime, oil, inks and rubber
2. Fast grease and soil cutting action
3. Wetting and removal of soils from the surface being cleaned
4. A high degree of solvency
5. Excellent oil rejecting properties
6. Excellent removal of heavy greases, carbonized oils, oily deposits, tar, asphalt and bituminous deposits
7. Protection of metal surfaces from rusting and corrosion during cleaning
8. Excellent rinseability and washability
9. Biodegradable and waste treatable
10. Contains no chlorinated or petroleum solvents
11. Non-caustic

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Typical Applications

Engines	Axles and chassis	Motors	Castings
Mill stands	Fork lifts	Plant machinery	Forgings
Castings	Stampings	Concrete floors	Floors and walls
Valves	Tanks	Asphalt plants and paving equipment	Mining and construction equipment
Farming equipment	Pulp and paper production	Ink rollers and packaging machines	Highway structures
Fleet Operations	Oil Refineries	Waste Management	Conveyors
Waste Treatment Plants – Wet wells & lift stations	Service & Repair stations	Machine shops	Food processing plants – non-processing and non-packaging areas only

Typical Substances Removed

Oils and greases	Fuel oils	Carbon deposits	Animal fats and oils
Tar	Asphalt	Road salt	Soot
Inks	Graffiti	Tree Sap	Rubber marks
Adhesives	Crayon marks	Lipstick	Glue
Make-up	Stickers	Scuff marks	Tape

Directions for Use and Method of Application

- 1.) Dilute Citrol[®] Concentrate with warm or cold water
- 2.) Soak or spray parts with Citrol[®] Concentrate solution. Allow solution to penetrate and soak the soil to be removed
- 3.) Solution can be applied by the use of soak or dip tanks, pressure sprayers, floor scrubbers, or conventional methods
- 4.) Use cold in recirculation dip tanks. If used in parts washers at full strength or diluted, it can cause paints in parts washers to peel and plastic pump parts to soften.
- 5.) Flush or rinse surface with water. Rinse with water before surface or part dries. Vacuum loosened contaminants, dirt, oil and grease after scrubbing
- 6.) Dry parts with a rag

General Cautions for Use

- 1.) Use this product on painted or glass surfaces in diluted form only and rinse the surface with water immediately
- 2.) Do not use this product on detailed surfaces
- 3.) As with all cleaning products keep out of the reach of children
- 4.) As with most cleaning agents do not allow the product to dry on surfaces
- 5.) Prolonged immersion with Citrol[®] X may attack some painted surfaces, plastics, natural rubbers and certain polymer composites. Spot test before using.
- 6.) Do not use on resilient tile, rubber, asphalt or urethane coated floors
- 7.) Do not use on freshly painted surfaces
- 8.) Keep product from freezing

Recommended Dilution Levels

State of California:

Aerosol Containers: Not available for use in aerosol cans.

1-gallon, 5 gallon, 30 gallon and 55 gallon containers: **For Manufacturing Use Only.** Citrol[®] Concentrate when used at a dilution ratio of 1:17 meets the South Coast Air Management District's Rule 1171 VOC regulations

Connecticut, Delaware, Illinois, Indiana, Massachusetts, Maine, Maryland, Michigan, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Virginia (Northern VA and Fredericksburg Emission Control Areas only)

Aerosol Containers: Not for Retail Sale. For use in manufacturing facilities, mining, food processing and agricultural operations only

1-gallon, 5 gallon, 30 gallon and 55 gallon containers: Citrol[®] Concentrate when used at a dilution ratio of 1:10 meets these States VOC regulations for consumer and Institutional & Industrial products.

Other States Not Listed

Product is not regulated for consumer and Institutional & Industrial use.

Dilution levels will vary depending upon the type and amount of substance being removed and the type of surface being cleaned

Always add Citrol[®] Concentrate to water

Applications & Uses	Dilutions Citrol® Concentrate: Water	Directions and Method of Application
Shop Floors	1:1 to 1:15 or undiluted	Dilute 1:1 to shock clean floor surfaces. For regular maintenance cleaning dilute to 1:15. Dilute product, apply to floor surface by spray, mop, brush or automatic floor scrubber. Allow several minutes contact time, scrub floor in usual manner. Rinse clean with water or use power/vacuum scrubber with pick-up
Automotive parts, engine housings, transmissions, all metal parts	1:1 to 1:10 or undiluted	Spray or brush on, or use in a cold dip tank. Rinse with water
Parts Washing	1:1 to 1:10 or undiluted	Use cold in re-circulating dip tanks. Rinse with water or wipe with a dry rag.
Trucks, dozers, tractors, mobile equipment	1:1 to 1:15 or undiluted	Spray on or apply by brush. For best results let set for 5 minutes. Rinse with water before surface dries.
Mill housings, shovel sticks, mill stands, floors, oil cellars	1:1 to 1:5 or undiluted	Use coarse spray, foam on or apply by brush. Rinse with water.
Waste Treatment plants; wet well & walls; lift stations	1:1 to 1:15 or undiluted	Spray on using coarse spray under normal or low pressure. Let stand 10-15 minutes. Rinse with water before surface dries.
Industrial plant flooring & machinery	1:1 to 1:15 or undiluted	Spray, mop or brush on or use power/vacuum scrubber with pickup

Recommended Dilution Levels (continued)

Applications & Uses	Dilutions Citrol[®] Concentrate: Water	Directions and Method of Application
Pressure Washing	1:5 to 1:15	As a pretreatment dilute product 1:5. Allow to soak for 2 minutes and high-pressure rinse clean. As pressure wash dilute product to 1:20 and operate the pressure washer according to the manufacturer's directions for use
Tires	1:5 to 1:15	Dilute product. Apply to tire surface, allow several minutes contact time, brush and rinse clean with water

Storage:

Do not store Citrol[®] Concentrate at elevated temperatures. Store Citrol[®] Concentrate as a flammable liquid. Always store the product in a cool dry place that has adequate ventilation. Do not store near food or feed products. Keep containers closed when not in use. To prevent contamination of unused product do not return any spent or used material to its original container. Keep away from direct sunlight. Keep Citrol[®] Concentrate from freezing.

Shelf Life:

Shelf Life is a minimum of 2 years in factory sealed containers when properly stored.

Typical Properties

pH (concentrate)	9
Specific Gravity	0.9366
Flash Point °F/°C ASTM D-93 PMCC	128°/53°
Flash Point °F/°C (1:1 dilution ratio) PMCC (ASTM D-93)	166°/74°
Flash Point °F/°C (1:5 dilution ratio) PMCC (ASTM D-93)	177°/81°
Flash Point °F/°C (1:10 dilution ratio) PMCC (ASTM D-93)	200°/93°
Flash Point °F/°C (1:15 dilution ratio) PMCC (ASTM D-93)	None to boiling point 212°/100°
Freezing Point °F/°C	20°/-7°
% VOC Content (concentrate)	50-55%
% VOC (aerosol)	60.73%
VOC Content (concentrate) Lbs/gallon	3.48
Grams/liter	416.99
VOC Content (1:17 dilution) Grams/liter	24.5
Solubility	Complete solubility in water
Rinsability	Excellent with water
Metal Safety	Safe for use on most metals