



# TECHNICAL DATA

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## #738 Citrol® X

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

Citrol® X is formulated from a combination of organic citrus based chemicals, detergents, sequestering agents, chelating agents, wetting agents and a powerful, multi-component surfactant-emulsifier system. This combination allows Citrol® X to rapidly and deeply penetrate a wide range of soils, dirt, inks, oil and grime allowing for their complete removal from the surface that is being cleaned. Citrol® X breakdowns the soils into tiny particles and rapidly disperses them into solution. Once dispersed, the sequestering and chelating agents prevent the soils, dirt, inks, oil and grime from clumping together and re-depositing onto the surface that is being cleaned. These sequestering and chelating agents will also react and surround interfering calcium, magnesium, or iron ions that may be present in the water used to dilute the product. By surrounding and reacting with these metallic ions, they are prevented from reacting with the soils to form water insoluble and difficult-to-clean calcium, magnesium, or iron salts and soap scums.

When used at the recommended dilution ratios with water Citrol® X will provide the following benefits and features:

- **Rapid penetration of built-up grease, dirt, grime, oil, inks and rubber**
- **Rapid wetting and removal of soils from the surface being cleaned**
- **Excellent detergency characteristics with high degree of solvency**
- **Excellent oil rejecting properties and fast grease action**
- **Excellent removal of heavy greases, carbonized oils, oily deposits, tar, asphalt and bituminous deposits**
- **Protection of metal surfaces from rusting and corrosion during cleaning**
- **Excellent rinseability and washability**
- **Biodegradable and waste treatable**
- **Contains no chlorinated or petroleum solvents or caustics**

### Typical Industrial Applications

Engines	Axles and chassis	Motors	Castings
Mill stands	Fork lifts	Plant machinery	Forgings
Castings	Stampings	Concrete floors	Shop 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

### 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

**Directions for Use:**

- Dilute Citrol® X with warm or cold water
- Soak or spray parts with Citrol® X solution. Allow solution to penetrate and soak the soil to be removed
- Solution can be applied by the use of soak or dip tanks, pressure sprayers, floor scrubbers, or conventional methods
- Flush or rinse surface with water. Vacuum loosened contaminants, dirt, oil and grease after scrubbing

**General Cautions for Use:**

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

**Storage:**

Do not store Citrol® X at elevated temperatures. Store Citrol® X as a combustible liquid. Always store 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® X from freezing.

**Shelf Life:**

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

**TYPICAL PROPERTIES**

pH (concentrate)	9 to 10
Specific Gravity	0.9366
Flash Point °F/°C ASTM D-93 PMCC	135°/57°
Freezing Point °F/°C	20°/-7°

**VOC Regulations:**

**CA: NOT FOR SALE IN CALIFORNIA.**

**CT, DC, DE, IL, IN, MA, MD, ME, MI, NH, NJ, NY, OH, PA, RI, UT, VA, VT: Product must be diluted 1:10 to meet VOC requirements.**

### Recommended Dilution Levels

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

Always add Citrol® X to water.

Applications & Uses	Dilutions Citrol® X: Water	Directions and Method of Application
Shop Floors	1:1 to 1:15	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	1:5 to 1:10	Spray or brush on, or use in a cold dip tank. Rinse with water
Parts Washing	1:5 to 1:10	Use cold in re-circulating dip tanks. Rinse with water or wipe with a dry rag.
Trucks, dozers, tractors, mobile equipment	1:5 to 1:20	Spray on or apply by brush. For best results let set for 5 minutes. Rinse with water before surface dries.
Pressure Washing	1:5 to 1:20	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 1:20	Dilute product. Apply to tire surface, allow several minutes contact time, brush and rinse clean with water