



CleanSafe™ 585

Technical Data Sheet

CleanSafe 585 is a high performance aqueous cleaning agent specially designed for ultrasonic cleaning equipment.

CleanSafe 585 effectively removes a wide range of soils such as drawing and stamping oils, coolants, synthetics and other metalworking fluids. It is also effective in removing soils and particulate from components with complex geometries.

CleanSafe 585 is safe on ferrous and non-ferrous alloys such as aluminum, copper and copper alloys, magnesium, nickel, steel, stainless steel, titanium and zinc. It is also compatible with polymeric substrates and elastomers.

CleanSafe 585 is formulated with a high level of corrosion inhibition, capable of preventing base metal attack on both ferrous and non-ferrous substrates. Moreover, it contains inhibitors to guard against oxidation of copper and copper alloys.

CleanSafe 585 is a phosphate-free cleaner, designed for low environmental impact. It does not contain nonylphenol ethoxylates (NPE) or alkyphenol ethoxylates (APE). Furthermore, it has a low Chemical Oxygen Demand (COD) and is free of Volatile Organic Compounds (VOC).

CleanSafe 585 is supported by a global network of technical representatives, capable of solving the industries most difficult cleaning applications.

FEATURES & BENEFITS

- Material Compatibility
- Corrosion Inhibition
- Hard-Water Stability
- Oil-Splitting
- Long Bath Life
- Biodegradability
- VOC-free
- Phenol-free
- Phosphate-free
- Non-Corrosive

PROPERTIES

Appearance.....	Clear liquid
Solubility in Water.....	Complete
Odor.....	Mild
Flash Point.....	N/A
Specific Gravity (25°C).....	1.08
pH value (100%).....	12.0
pH value (10%).....	11.2
pH value (5%).....	11.0
Cloud Point.....	>200°F (93°C)
COD value (0.1%).....	288 mg/L
Bath Monitoring.....	Titration

PROCESS

1. Add CleanSafe 585 to the wash tank, using a concentration between 2-10% by volume. Typical operating temperatures range between 70-180°F (21-82°C).
2. Remove CleanSafe 585 from the substrate surface with a water rinse.
3. If spot free cleaning is required, rinse the part thoroughly with reverse osmosis or deionized water.

SOILS REMOVED

- Mineral Oils
- Synthetic Oils
- Rust Inhibitors
- Lubricating Oils
- Particulate Matter
- Water-Soluble Oils
- Coolants
- Buffing Compounds
- Fingerprint Oil
- Dust

CleanSafe™ 585

EQUIPMENT

- CleanSafe 585 is specially designed to operate in ultrasonic cleaning equipment.
- Bath concentration may be monitored by titration, refractive index or conductivity.
- Companies requiring new ultrasonic equipment may contact Petroferm for supplier recommendations.

HEALTH & SAFETY

Environmental

CleanSafe 585 is a suitable alternative to ozone depleting substances and other materials with high environmental impact.

Health & Safety

CleanSafe 585 is a suitable alternative to substances with high exposure hazards.

Fire Risk

CleanSafe 585 is a suitable alternative to flammable or combustible materials.

SHELF LIFE

The shelf life for this product is indefinite when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after twenty-four months from the date of manufacture prior to customer use.

Typical property data is not intended for specification purposes. Petroferm, its sales agents and distributors make no warranty of merchantability of the product or of product fitness for any particular purpose. This product and all information supplied are used at the purchaser's own risk, conditions of use being beyond Petroferm's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.

ENVIRONMENTAL/REGULATORY

Ozone Depletion Potential (ODP).....	Zero
Global Warming Potential (GWP).....	Zero
Significant New Alternatives Program (SNAP).....	Approved
Hazardous Air Pollutants (HAP).....	No
National Emission Standards for Hazardous Air Pollutants (NESHAP).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Not regulated

DISPOSAL /SAFETY

Disposal: Petroferm recommends contacting your current or local environmental service company for disposal of this product.

Safety: Please see Material Safety Data Sheet for further information.

Storage: CleanSafe 585 should be stored in the original container, preferably above 50°F (10°C), in a ventilated, fire-resistant building.

Packaging: CleanSafe 585 is available in 45 lb (20 kg) pails and 495 lb (225 kg) drums.



Petroferm

Advanced Products for Advanced Cleaning

Petroferm Inc.

3938 Porett Drive • Gurnee, IL 60031 USA

Tel: +1 847-244-3410 • Fax: +1 847-249-6346

www.petroferm.com

Doc. No. 0100 Rev. No.: 001 Date: 07/07