

Coventry 12851 Precision Vapor Cleaning Solvent

Product # 12851

Product Description

Coventry™ 12851 Precision Vapor Cleaning Solvent is a nonflammable solution engineered for demanding vapor degreasing applications. It quickly removes machining fluids and oils, particulate debris, lubricants, and other contaminants from metal and ceramic surfaces. This near azeotrope was formulated to provide superior nonflammable cleaning in vapor cleaning applications, while still offering high soil loading potential and fast throughput. Utilizing novel replacement chemistry that does not contain any hazardous air pollutants or ozone depleting compounds, this material provides the high cleaning strength required for the most difficult jobs.

- Powerful cleaning agent to remove oils, dirt, grease, dust, and other contaminants
- Does not contain n-propyl bromide, trichloroethylene, perchloroethylene, HAP's, or any ozone depleting compounds
- Nonflammable, no flash point
- Stabilized for metals such as aluminum, magnesium, titanium, and brass
- Noncorrosive, safe for sensitive metals
- Penetrates to clean hard to reach areas
- Evaporates quickly and leaves no residues, minimizes down time

Typical Applications

Coventry™ 12851 Precision Vapor Cleaning Solvent is used to clean and prepare a variety of surfaces within critical environments by vapor degreasing, soaking, and wiping:

- Swelling elastomers
- Carrier fluid for depositing silicone lubricants
- Vapor degreasing, ultrasonic and immersion cleaning
- Extraction
- Drying agent



Typical Product Data and Physical Properties

Boiling Point	108°F / 42°C
Evaporation Rate (butyl acetate=1)	>1
Flashpoint	None
Specific Gravity	1.26
Solubility in Water	Negligible
Vapor Pressure @68°F	405 mmHg
Appearance	Clear, colorless liquid
Dielectric Breakdown (ASTM D-877)	32 kV
Kauri-Butanol (KB) Number	128
VOC* Content	100%
SCAQMD	1138 g/L
Federal	90%
Shelflife	2 years from DOM unopened
RoHS Compliant	Yes

*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

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Compatibility

Coventry™ 12851 Precision Vapor Cleaning Solvent is compatible with most metals and plastics. As with any solvent, compatibility with substrate should be determined on a non-critical area prior to use. Long term compatibility with materials used during manufacturing must be evaluated as there is potential for plasticizers to be leached from plastic funnels, syringes, housings, bottles, etc.

Material	Compatibility
ABS	Non-Compatible
Buna-N	Fair
EPDM	Fair
Graphite	Excellent
HDPE	Excellent
LDPE	Good
Lexan™	Fair
Neoprene	Fair
Noryl®	Poor
Nylon™ 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Non-Compatible
PVC	Excellent
Silicone Rubber	Poor
Teflon™	Excellent
Viton™	Fair

Availability

12851	1 gal. / 3.8 L liquid
12851-5	5 gal / 19 L liquid

Technical and Application Assistance

Chemtronics provides a technical hotline to answer your technical and application related questions.
The toll free number is: 1-800-TECH-401.

Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

Performance

Soil Removal – Vapor Degreasing

Lubrizol Corrosion Inhibitor	100% Removal
Unilube All Purpose Grease	80.5% Removal
5W30 Synthetic Oil	100% Removal
Fire Resistant Hydraulic Fluid	100% Removal
Silicone Fluid	100% Removal

Soil Removal – Ultrasonic Cleaning

Lubrizol Corrosion Inhibitor	100% Removal
Unilube All Purpose Grease	100% Removal
5W30 Synthetic Oil	100% Removal
Fire Resistant Hydraulic Fluid	100% Removal
Silicone Fluid	100% Removal

Usage Instructions

For industrial use only. Read MSDS carefully prior to use.
Keep away from ignition sources. Use only in a well-ventilated area.

For vapor degreasing or ultrasonic cleaning application, charge sump tank with solvent. For ultrasonic or soak applications, be sure to cover tank when not in use to prevent evaporation.

As with all vapor degreaser equipment and processes, observe all safety precautions, guidelines and operating rules associated with these units. Failure to do so may put operations personnel at risk. Avoid excessive vapor losses, loss of refrigeration, excessive boil sump heat, etc. Make sure all equipment is operated in accordance with the manufacturer's guidelines and instructions. If in doubt, contact your manufacturer immediately.