



LENIUM[®] GS

Technical Data Sheet

LENIUM GS is a high performance solvent cleaner designed to operate in open-top and vacuum vapor degreasers. This solvent cleaner is a mixture based on n-propyl bromide (nPB) and fortified with a stabilizer package.

LENIUM GS is a drop-in replacement for trichloroethylene (TCE), HCFC-141b, HCFC-225, hydrofluorocarbons (HFCs), perchloroethylene (PCE) and methylene Chloride (MeCl).

LENIUM GS is a non-flammable solvent, approved by the EPA's Significant New Alternatives Policy (SNAP) as an alternative to ozone depleting substances.

LENIUM GS effectively removes adhesives, buffing compounds, drawing oils, fluxes, pastes, greases, hydraulic oils, lapping compounds, resins, inks, silicone oils and high melting waxes.

LENIUM GS leaves low surface residue and is safe for use with 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 many polymeric substrates and elastomers.

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

FEATURES & BENEFITS

- Built-in Stabilizer Package
- Drop-In Replacement
- Very High Solvency
- SNAP Approved
- Aerospace Tested
- Replaces TCE, PCE, etc
- Fast Dry Time
- Non-Flammable
- Good Material Compatibility
- Low Surface Residue/NVR

PROPERTIES

Appearance.....	Clear liquid
Flash Point.....	None
Boiling Point.....	160°F (71°C)
Specific Gravity (25°C).....	1.32
Viscosity (25°C).....	0.49 cps
Vapor Pressure (20°C).....	110.8 mm Hg
Evaporation Rate (TCA = 1).....	0.96
Specific Heat (25°C).....	0.27
Heat of Vaporization.....	58.8 cal/g
Kauri-Butanol (KB) Value.....	125
Flammability Limits (vol %).....	4-7.8
Solubility in Water.....	240 ppm
Solubility of Water.....	500 ppm

PROCESS

Add LENIUM GS at full concentration to the tank reservoir(s). See Vapor Degreasing Operating Manual for more information.

Controller Settings

Liquid Temperature Controller/Sensor (LTC).....	170°F (77°C)
High Temperature Controller (HTC).....	175°F (79°C)
Safety Vapor Controller (SVC).....	150°F (66°C)
Vapor Up Temperature (VU).....	150°F (66°C)
Primary Refrigeration Temperature.....	35-40°F (2-5°C)

SOILS REMOVED

- Adhesives
- Buffing Compounds
- Drawing Oils
- Fluxes & Pastes
- Greases
- Hydraulic Oils
- Lapping Compounds
- Resins & Inks
- Silicone Oils
- Waxes

LENIUM GS

EQUIPMENT

- LENIUM GS is suitable for use in a variety of commercially available cleaning equipment including open-top and vacuum vapor degreasers.
- Companies requiring new equipment may contact Petroferm for supplier recommendations.
- Companies requiring acid acceptance kits, vapor monitoring badges and nPB Super Booster may contact Petroferm for availability.

APPROVALS & TESTING

Approvals

Scott Aviation SMP No.: 7700009 Rev. AP, Cleaning of Components & Assemblies for Use in Breathing Equipment

Testing

ASTM F-519, F-945, F-1110

SHELF LIFE

The shelf life for this product is twenty-four (24) months when it is stored in its original, sealed container at room temperature.

However, the product should be inspected after twenty-four (24) 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).....	0.013-0.018
Global Warming Potential (GWP):.....	Low
Significant New Alternatives Program (SNAP).....	Approved
National Emission Standards for Hazardous Air Pollutants (NESHAPs).....	Not regulated
Superfund Amendments and Reauthorization Act (SARA).....	Not regulated
Resource Conservation and Recovery Act (RCRA).....	Not regulated
Acceptable Exposure Limit (AEL).....	25 ppm

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

Packaging: LENIUM GS is available in 55 lb (25 kg) pails and 600 lb (272 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: 1/08