



OceanSolve

The natural choice from the natural source

The precursor to the major component of this multi-purpose precision cleaning solvent originates from the ocean and returns to the ocean after use, with minimum impact on the environment. This is due to OceanSolve having a very low ODP (ozone depleting potential), a very low GWP (global warming potential) and an atmospheric lifetime of only 11 days. These combine to make OceanSolve one of the most environmentally safe non-flammable solvents available, whilst still retaining tremendous solvency power.

OceanSolve exhibits the following cost benefits:

- It can typically last up to 3 - 4 times longer than chlorinated solvents in bath and vapour degreaser applications.
- It can be easily recycled therefore reducing overall usage as well as costs associated with waste disposal.
- Requires less energy usage than several other common solvents.
- An ability to clean quickly, which means more parts can be cleaned in a working day.
- Can be more easily retained in a vapour degreaser, meaning less is lost to the environment. Typically a modern V.D. machine on PCB cleaning on a continuous use basis may only use 50 litres per month.
- Can be used in existing equipment, necessitating no extra capital expenditure.

OceanSolve can be used in the following equipment:

1. Vapour degreasers, Ultrasonic cleaners, Aerosols, Hot or cold dip-baths and also for Cold cleaning.
2. Any equipment that was previously used with:
1,1,1-Trichloroethane
Trichloroethylene
Methylene chloride
Perchloroethylene
141b
Many other general purpose solvents

OceanSolve is used in the following industries:

1. The Precision Cleaning industry, where absolute cleanliness is paramount. Aerospace, Electronics and Printed circuit boards are industries where it replaces 1,1,1-Trichloroethane, Trichloroethylene, Perchloroethylene and 141b.
2. The Adhesive and Sealants industry, where it can be used both in the formulation of many products (replacing Methylene chloride) and also in the removal of excess adhesive or sealant in a subsequent manufacturing process.
3. The Textile industry, where it is used as a grease spot remover. This is usually, but not exclusively, at the fabric manufacturing stage.
4. The Optical industry, for cleaning lenses during manufacture. It is also used in the construction of precision optical instruments (telescopes, microscopes etc.).
5. The Asphalt industry for analysis of the different grades of product.
6. The Oxygen Cleaning industry, where it is used for removal of all potentially burnable impurities to ensure safe use of the article with liquid oxygen.
7. The Medical Equipment industry, where it is used for both the delicate instruments and also the cleaning of 'replacement parts'.

OceanSolve is compatible with:

1. All normal metals and alloys, including iron, Aluminium, Titanium and other aerospace alloys.
2. Plastics such as: Epoxy glass, HDPE, Acetal, PVF, Nylon 6, Phenolics, Polyesters, Polypropylene, PTFE and many others. Customers should always check their own special plastics if relevant.
3. Elastomers, including Polyurethane, Buna-N, Fluoroelastomer, Neoprene and Viton.



OceanSolve has the following features:

- Non-flammable, it does not exhibit a flashpoint (ASTM D56 TCC), therefore it is very safe to use.
- Extremely low non-volatile residue, making it suitable for precision applications.
- Relatively fast drying (similar to 1,1,1-Trichloroethane), which allows for quick cleaning operations.
- Very low ODP and GWP: It is not on any list for subsequent regulation or phase out.
- Non-carcinogenic and therefore much safer than many commonly used chlorinated solvents.
- Contains no CFC's or HCFC's
- It has a manufacturer recommended OEL (occupational exposure limit) of 100ppm, which is much higher than the normal chlorinated solvents, making it less of a health hazard. Typically, figures of less than 5ppm have been measured just above a working vapour degreaser.
- It is not a HAP (hazardous air product).

For more information on OceanSolve please contact us at: mail@bromineafrica.co.za and our technical department will be pleased to answer any questions you may have.