



CLEANING

# PROMOSOLV™ DR3/BO

LIGHT-DUTY CLEANING  
SOLVENT PROCESSES  
ULTRA-LOW NVR

## BENEFITS

PROMOSOLV DR3/BO is a non-flammable solvent-based cleaning fluid, dedicated for light-duty cleaning and particulates removal.

It has the same chemical properties as PROMOSOLV DR3 but with the additional benefit of having an ultra-low NVR. This makes it especially suitable for cleaning or rinsing of very sensitive applications like oxygen delivery systems and hard-disk manufacturing.

The very low surface tension enables penetration into tight or hard-to-reach spaces, ensuring a deep and thorough cleaning.

PROMOSOLV DR3/BO is compatible with all metals and alloys, including very sensitive ones. It has also good compatibility with most plastics & elastomers, however it is necessary to test before use.

PERFORMANCE	<ul style="list-style-type: none"> <li>Thermally and chemically stable in use</li> <li>The very low surface tension allows deep cleaning &amp; rinsing of parts with complex geometry</li> <li>Short cleaning, rinsing and drying times</li> </ul>
COST	<ul style="list-style-type: none"> <li>Continuous recycling in equipment for a long bath-life</li> <li>Can be returned for recycling and re-use</li> <li>The relative high boiling point reduces risk of solvent drag, so limiting consumption</li> </ul>
HSE	<ul style="list-style-type: none"> <li>Low Global Warming Potential (GWP)</li> <li>No Ozon depletion potential (ODP)</li> <li>Non-flammable &amp; no flashpoint</li> <li>Low environmental impact: GREENWAY product</li> </ul>

## QUALIFICATIONS & APPLICATIONS

PROMOSOLV DR3/BO has been approved by Boeing Space and meets the specification of NPFC - A-A-59150 Cleaning Compound, Solvent, Hydrofluoroether (HFE) and Boeing DPM 8853.

Typically, it can be used for oxygen tool cleaning, oxygen system gauge cleaning, oxygen storage and delivery systems, spacecraft oxygen system verification and cleaning, aviation and missile command applications, shipboard compressed air systems, deposition of lubricants and lubricant additives onto hard disk media, cleaning of head gimbal assemblies, particulate removal in high reliability devices, and particle counting equipment.

## SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Transparent, colorless	Visual
Purity (% weight)	>99.5	Internal / BRY-MO-121
Water content (ppm in weight)	<50	Internal / BRY-MO-044
Non volatile residue (mg/L)	<1	Internal / BRY-MO-131
Acid Index (mgKOH/g)	<0.01	Internal / BRY-MO-042
Particles	>5micron: <3/ml >1micron: <5/ml >1/2micron: <16/ml	Internal / BRY-MO-125

## CHARACTERISTICS

CHARACTERISTICS	VALUES
Boiling point	61°C/142°F
Freezing point	-135°C/-211°F
Flash point	No
Density (g/cm <sup>3</sup> )	1.52
Surface tension (dynes/cm)	13.6
Vapor pressure (mm Hg)	202
Dynamic viscosity (mPa.s)	0.75
Latent heat of vaporization (kJ/Kg@bp)	112
Specific heat (kJ/Kg.K)	1.17

## PROCESS RECOMMENDATION

The best process will depend on factors such as operating conditions, equipment, desired cleaning time and the nature of contaminants. Our team is ready to advise you.

- Do not remove parts too quick out of the drying zone to prevent unwanted loss of solvent.
- Compatibility report with different materials is available on request.

### PROCESS EXAMPLE

Vapor phase process:



## PACKAGING, STORAGE & SHELF LIFE

- Keep products in closed original packaging and store at room temperature.
- Shelf life is minimum 5 years from production date when kept in recommended conditions.

### AVAILABLE PACKAGING



250KG DRUM



35KG PAIL



5KG GLASS BOTTLE

Please verify the packaging details, including volume and availability, with your sales representative, as they may vary depending on the production facility where the product is manufactured.

## HEALTH, SAFETY & ENVIRONMENT

PROMOSOLV DR3/BO is a **GREENWAY** product. More info on our Greenway concept via this [link](#).



### MAIN CONTRIBUTORS WHICH REDUCE IMPACT:

#### HUMAN HEALTH & SAFETY

- Non-flammable, no flashpoint & no EUH risk phrases
- Non-toxic & Low corrosive impact

#### ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- No H-risk phrases
- Can be returned for recycling and re-use: check our ECOPROGRAM
- Reduce consumption of product, consumables, water & energy

PROPERTIES	PROMOSOLV DR3/BO
Ozone Depleting Potential (ODP)	0,10
Global Warming Potential (GWP)	460
VOC	yes
Flashpoint	no

Contains no Reach Substances (on Candidate list, Annex XIV & XVII) / Contains no persistent organic pollutant (EC 850/2004) / Contains no Import/Export Hazardous substances (EU 649/ 2012).

Used polluted product can be returned to us for recycling if regulations permit. Please contact your local sales contact for more details on our **ECOPROGRAM**.

Please refer always to the Safety Data Sheet (SDS or MSDS) prior to use. Our SDS can be downloaded at [www.quickfds.com](http://www.quickfds.com). We will request to provide your email address, so we can automatically send you a new version of the SDS when a future update would occur.

## TECHNICAL SUPPORT & FREE-OF-CHARGE TESTING

Inventec has a worldwide dedicated Technical Support team to help you along the various stages of our cooperation.

Depending on your request, we provide online or onsite support

- to select the right product based on your specific needs.
- to assist you in your product qualification process.
- to guide you with the initial set up of your process at all your worldwide manufacturing facilities.
- to provide fast response on technical issues which could occur at any time during mass production.

Customers are also welcome in our CLEANING CENTERS to see the process in action and to get convinced by our solutions. We cover water- and solvent based processes.

Contact our technical support via [contact@inventec.dehon.com](mailto:contact@inventec.dehon.com) or your local sales representative.

## ABOUT INVENTEC

Inventec is a global provider of SOLDERING, CLEANING, COATING, COOLING materials for Electronic, Semiconductor and Industrial applications. For over 60 years we have shown leadership in innovation by putting HEALTH IMPACT, SUSTAINABILITY and RELIABILITY at the core of our product development.

With ISO 9001 & 14001 production sites in France, Switzerland, USA, Mexico, Malaysia and China we can guarantee a smooth and cost-effective supply chain.

We supply to many industries but the excellent performance of our products in applications which demand high reliability, leads us to focus especially on the AUTOMOTIVE, AEROSPACE, SEMICONDUCTOR, ENERGY and MEDICAL industry.

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SOLDERING  
CLEANING  
COATING  
COOLING

In accordance with the Annex II of Directive 2011/65/UE (RoHS), including its amendments, we certify that this product does not contains quantities above 0.1% of Hg, Pb, Cr VI, PBB, PBDE, DEHP, BBP, DBP, DIBP and above 0.01% of Cd

This data is based on information that the manufacturer believes to be reliable and offered in good faith. In no event will INVENTEC PERFORMANCE CHEMICALS be responsible for special, incidental and consequential damages. The user is responsible to the Administrative Authorities (regulations for the protection of the Environment) for the conformity of his installation.

Inventec Performance Chemicals – 26 rue de Coulons. 94360 Bry-sur-Marne, France  
Limited company with capital of 600 000€ - 964 500 706 RCS Créteil