



CLEANING

PROMOSOLV™ DR1

LIGHT-DUTY CLEANING & RINSING
SOLVENT PROCESSES
MEDIUM GWP: 439

BENEFITS

PROMOSOLV DR1 is a non-flammable solvent-based cleaning fluid. It can be used as a rinsing medium in combination with our TOPKLEAN™ range in a co-solvent cleaning process to offer a safe solvent solution without compromising on high cleaning performance. Additionally, it is ideal for spotless fast drying or for removing light oils and particulates.

It has been specially formulated with isopropanol to enhance the removal of polar contaminants like flux and fingerprints, and will also speed up drying without leaving residues.

PROMOSOLV DR1 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. The very low surface tension enables penetration into tight or hard-to-reach spaces, ensuring a deep and thorough cleaning and rinsing.

PROMOSOLV DR1 T is the recycled version (made from recycled solvent) of PROMOSOLV DR1. This product is the result from our ECOPROGRAM service and offers the same performance as the original product.

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

SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Transparent, colorless	Visual
Methoxy-nonafluorobutane ethers (%)	95.5% +/- 0.5	Internal / MO.SB.10033
Isopropanol (%)	4.5% +/- 0.5	Internal / MO.SB.10033

CHARACTERISTICS

CHARACTERISTICS	PROMOSOLV DR1	PROMOSOLV DR1 T
Boiling point	55°C/131°F	55°C/131°F
Freezing point	-42°C/-44°F	-42°C/-44°F
Flash point	No	No
Density (g/cm ³)	1.48	1.48
Purity (% weight)	>99.5	>99.0
Surface tension (dynes/cm)	14.5	14.5
Vapor pressure (kPa)	27.6	27.6
Dynamic viscosity (mPa.s)	0.75	0.75
Latent heat of vaporization (kJ/kg @bp)	165	165
Specific heat (kJ/kg.K)	1.17	1.17

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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.

The table below serves as a guideline for the types of contaminants the product can address and the applicable cleaning processes.

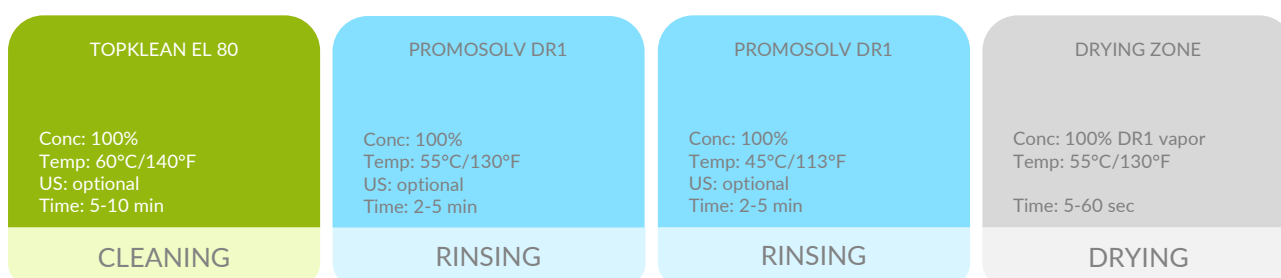
CONTAMINANT/APPLICATION	PROCESS
Heavy HC oil & grease, wax, flux residues	Separated (Bi-solvent) and Mixed Co-solvent in combination with our TOPKLEAN™ products.
Light HC oils, fluorolubes, fluoropolymers, particulates, fingerprints	Vapor phase (Mono-solvent), flushing, manual
Spotless fast drying	After de-watering process

REMARKS

- Do not remove parts too quick out of the drying zone to prevent unwanted loss of solvent.
- A dedicated PCA Kit to monitor the bath status and compatibility report with different materials are available on request.

PROCESS EXAMPLE

Separated Co-Solvent



Mixed Co-solvent



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



15KG JERRYCAN

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 DR1 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: 100% safe for storage and when used in equipment
- Non-toxic & no corrosive impact: no S-risk labelling

ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- Low environmental impact: no H labelling regarding environment
- Can be returned for recycling and re-use: ECOPROGRAM
- Reduce consumption of product, consumables, water & energy

PROPERTIES	PROMOSOLV DR1
Ozone Depleting Potential (ODP)	0.00
Global Warming Potential (GWP)*	439
Atmospheric lifetime (years)	3,8
VOC	yes
Flashpoint	no

*GWP calculation according to FGAS3

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. 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.

Inventec is unique in the world by developing not only cleaning materials but also soldering and coating solutions. These materials are very closely linked with each other from a process point of view. Talking to our Technical Team, who understands very well these 3 different product groups, will help you greatly to overcome technical challenges within your overall process.

Contact our technical support via 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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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.

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