



CLEANING

# TOPKLEAN™ MC 20A

OIL & GREASE REMOVAL  
CO-SOLVENT PROCESS  
LEGACY PRODUCT

## BENEFITS

TOPKLEAN MC 20A is a legacy product used for over 15 years by many actors in precision parts manufacturing to remove hydrocarbon oil & grease. At INVENTEC we constantly challenge ourselves to make a great product even better. Today we recommend TOPKLEAN MC 20B, which is a minor evolution to improve sustainability.

It is used in co-solvent process to offer a fast & sustainable cleaning process with very high cleaning efficiency. In this process, TOPKLEAN MC 20A is rinsed perfectly with solvents from our PROMOSOLV™ range.

The co-solvent process has been a game changer for over 15 years now. It has been developed to replace solvents with a high HSE impact with a more sustainable solution and with equally strong cleaning performance. It particularly stands out when addressing parts with very tight or difficult to reach spaces. In contrast, a water-based cleaning system carries the risk that the cleaning chemistry may not be adequately removed due to the significantly higher surface tension of water.

PERFORMANCE	<ul style="list-style-type: none"> <li>Excellent solubility organic &amp; mineral residues</li> <li>Very low surface tension to allow perfect cleaning in very tight or difficult to reach spaces</li> <li>Excellent compatibility with all metals, glasses, ceramic &amp; many plastics</li> <li>Allows shining effect to sensitive alloys &amp; metals</li> </ul>
COST	<ul style="list-style-type: none"> <li>Fast process allows increase in production capacity</li> <li>Rinsing fluid is constantly recycled, limiting consumption</li> <li>No water consumption &amp; no need for wastewater treatment</li> </ul>
HSE	<ul style="list-style-type: none"> <li>No Ozon Depletion Potential (ODP)</li> <li>No Global Warming Potential (GWP)</li> <li>Relative high flash point - safe to use, storage &amp; transport</li> <li>No aromatics &amp; halogenated compounds</li> </ul>

## SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Transparent, colorless	Visual
Density (g/ml @20°C)	0.790 ± 0.010	BRY MO 028

## CHARACTERISTICS

CHARACTERISTICS	VALUES	METHODS
Boiling point	>170°C/>338°F	ASTM D1078
Flash Point (PMCC)	65°C/149°F	ASTM D93
Viscosity at 25°C	1,6mm <sup>2</sup> /s	ASTM D445
Surface tension at 20°C (dynes/cm)	41	ASTM D971
Relative evaporation rate (nBuAc=1)	0,06	ASTM D3539
Dielectric rigidity	200 KV/cm	DIN/VDE 0370/5
Miscibility in water	Not miscible	Internal
Relative Vapor density at 20°C	4,6	Internal
Latent heat of vaporization (kJ/kg at bp)	320	Calculated
Specific heat (kJ/kg.K)	2.0/2.1	Calculated
Heat conductivity at 20°C	0,13 W/M.K	Calculated
Presence of aromatic compounds (% weight)	<0.01 %	SMS 2728
NVR (G/100 mL)	<0,01	ASTM D1353
Water content (% weight)	<0.1	ASTM E1364
Boiling range	174-199°C/345-390 °F	ASTM D1078
VOC	776 g/L	

SOLDERING  
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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.

- Do not remove parts too quickly 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 is available on request.

### PROCESS EXAMPLE

Separated co-solvent process



Mixed co-solvent 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



20L CANISTER



200L DRUM

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

TOPLEAN MC 20A is **NOT** a **GREENWAY** product. Although fully in line with safety & environmental regulations, this product doesn't match our strict criteria to be labelled as a Greenway product. More info on our Greenway concept via this [link](#).



### LOOKING FOR A MORE SUSTAINABLE SOLUTION?

#### GREENWAY ALTERNATIVE

- We currently don't have a Greenway alternative but our target is to develop one in the near future. In case you want us to prioritize the development of a Greenway alternative, do not hesitate to contact us.

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).

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.

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](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.

[www.inventec.dehon.com](http://www.inventec.dehon.com)



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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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