



CLEANING

TOPKLEAN™ EL 10F

MULTI-PURPOSE ELECTRONICS CLEANING
MANUAL PROCESS
HIGHER FLASHPOINT VS IPA

BENEFITS

TOPKLEAN EL 10F is a multi-purpose electronic cleaner for removal of flux residues, non-reflowed solder pastes and uncured glues in a manual spray or immersion cleaning process at ambient temperatures. It works fast and effective thanks to its excellent capacity to dissolve organic & mineral pollutants. Its higher flash point compared with Isopropanol (IPA) makes it a drop-in solution, which is safer to use and reduces consumption substantially.

It's CMR, aromatic & halogen free, with no global warming potential. As it is a solvent, the product has no pH and will as such not damage sensitive metals or alloys.

It is a ready-to-use product that does not need to be diluted.

PERFORMANCE	<ul style="list-style-type: none"> Product for wide applications in production or maintenance of electronics. Fast & efficient cleaning Easy to use
COST	<ul style="list-style-type: none"> Low consumption because of medium evaporation Reduces substantially equipment downtime
HSE	<ul style="list-style-type: none"> No CMR substances Low environmental impact: No GWP Relative high flash point (38°C/100°F) compared to IPA (12°C/53°F)

SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Colorless clear	Visual
Density at 20°C (g/ml)	0,830 ± 0,010	BRY-MO-028

CHARACTERISTICS

CHARACTERISTICS	VALUES
Flash point	38°C / 100°F
Relative evaporation rate (nBuAc=1)	0.15
Solubility in water	partially soluble
Water content (% weight)	< 0.1
Aromatics content (% weight)	< 0.01
Non volatile residue (g/100 ml)	<0.01
Viscosity @ 25°C / 77°F 302(mm ² /s)	1.2
Vapor pressure @ 20°C / 68°F (hPa)	2.8
Boiling range (°C/°F)	150-170 / 302-338

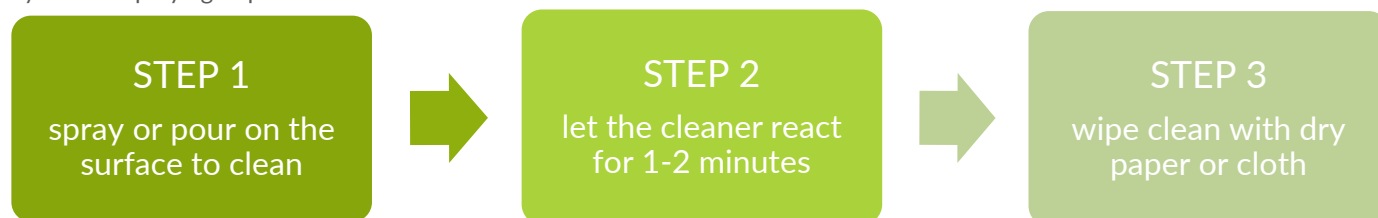
APPLICATION GUIDELINES

TOPKLEAN EL 10F is only suitable for manual or immersion use at ambient temperature.

- As the product is flammable it is necessary to work by immersion under **ATEX conditions** (Consult our MSDS). In case you prefer a non-flammable product for these kind of processes, we recommend QUICKSOLV DEF90.
- Mechanical actions by brush or wipes on the surface to clean is necessary when not using ultrasonics or immersion jets.
- Do not leave parts immersed in Topklean EL 10F for longer than 60 minutes, to avoid possible damage to certain plastic components.
- The cleaning time depends on the amount of residue and time between each maintenance. We recommend frequent cleaning for a more efficient cleaning process. Regular cleaning decreases the overall cleaning time, consumption of cleaning chemistry and expands the life time of your equipment.

PROCESS EXAMPLE

By manual spraying or pour on surface.



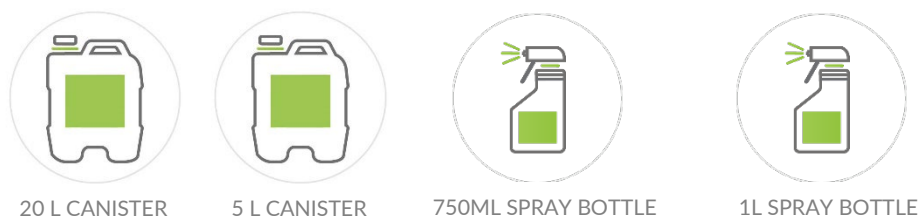
By immersion at ambient temperature.



PACKAGING, STORAGE & SHELF LIFE

- Keep products in closed original packaging and store at room temperature.
- Shelf life is minimum 18 months from production date when kept in recommended conditions.

AVAILABLE PACKAGING



20 L CANISTER

5 L CANISTER

750ML SPRAY BOTTLE

1L SPRAY 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

TOPKLEAN EL 10F is **NOT** 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).

It is biodegradable according to regulation 648/2004 but must be neutralized and filtered before disposal in sewer system in accordance with local regulations. Neutralization and titration methods are available upon request.

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.

www.inventec.dehon.com



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