



CLEANING

# PROMOCLEAN™ TP 61

REMOVAL OF FLUX RESIDUES  
AQUEOUS IMMERSION PROCESS  
COMPATIBLE WITH ALUMINIUM

## BENEFITS

PROMOCLEAN TP 61 is a cleaning fluid dedicated for removal of all types of flux residues on PCBA's, Power modules, lead frames, BGA's, PoP or SIP applications & LED assemblies.

The controlled alkalinity mechanism makes sure this product is compatible with aluminum & other sensitive materials and at the same time providing a high cleaning power. Its low surface tension allows superior cleaning and rinsing under low stand-off components and difficult to reach spaces.

It is intended for a water-based immersion process and used diluted with DI water. PROMOCLEAN TP 61 can clean most flux residues at 15 % dilution. Increase dilution rate for hard to remove residues.

PERFORMANCE	<ul style="list-style-type: none"> <li>▪ Excellent solubilization of reflowed organic compounds</li> <li>▪ High rinsing capacity</li> <li>▪ Limited foaming</li> <li>▪ Protects aluminum &amp; sensitive materials during the cleaning cycle</li> </ul>
COST	<ul style="list-style-type: none"> <li>▪ High cleaning power even at low concentration</li> <li>▪ Exceptional long bath-life</li> <li>▪ Concentrated product, reduces transport &amp; storage cost</li> </ul>
HSE	<ul style="list-style-type: none"> <li>▪ No CMR substances</li> <li>▪ Low environmental impact: GREENWAY product</li> <li>▪ Non-flammable</li> </ul>

## SPECIFICATIONS

SPECIFICATIONS	VALUES	METHODS
Aspect	Colorless to slightly yellow liquid	Visual
Density at 20°C (g/ml)	0.98 ± 0,01	BRY-MO-028
pH of pure product	10,4 ± 0,5	BRY-MO-011

## CHARACTERISTICS

CHARACTERISTICS	VALUES
Flash point	none
Solubility in water	totally soluble
Surface tension (dynes / cm)	27,4

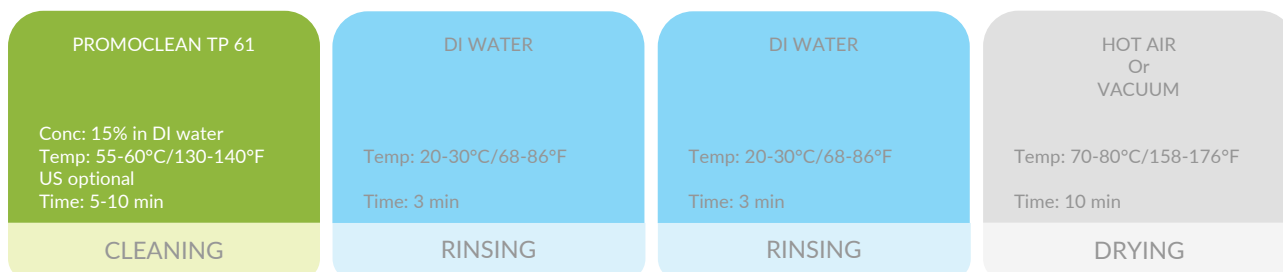
## PROCESS RECOMMENDATION

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.

- Range of dilution in DI water: 15% to 90% depending on flux media and contamination load.
- A dedicated PCA Kit to monitor the bath status and compatibility report with different materials are available on request.
- It's key to determine the maximum time materials can be exposed to the cleaning chemical. Although our cleaning products will not damage materials they are designed for under normal conditions, prolonged exposure may.

### PROCESS EXAMPLE

Immersed jet process



## 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



20L JERRYCAN



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

PROMOCLEAN TP 61 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 -> eliminating the need for explosion proof equipment or special storage & transport
- Non-toxic

#### ENVIRONMENT PROTECTION & RESOURCES SAVINGS

- Low environmental impact: no H labelling regarding environment
- No GWP
- Very low VOC(<25% of VOC compound)

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).

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

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](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.

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SOLDERING  
CLEANING  
COATING  
COOLING

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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