

# TOPKLEAN MC 1007 D

**INVENTEC**  
PERFORMANCE CHEMICALS



## PERFORMANCES

Used for the mechanic and micro-mechanic industry, **TOPKLEAN™ MC 1007D** has been especially formulated for the removal of heavy contaminants such as **greases, polishing pastes and lapping pastes**, having at the same time a desoxydation property on all copper alloys and precious metals.

**TOPKLEAN™ MC 1007D** is a colourless concentrated hydro carbonated product of low viscosity and light odour. It is composed of a mixture of aliphatic hydrocarbons, oxygenated polar compounds and a corrosion inhibitor. It replaces efficiently 1,1,1 trichlorethane and other chlorinated solvents in these applications.



Its low surface tension and its use with ultrasonics provide outstanding cleaning qualities. Degreaser **TOPKLEAN™ MC 1007D** is generally recommended to be used in vapour phase machines or in sumps. Drying can be improved with **vacuum-air, warm air** or by using **INVENTEC's** products, **NOVEC™** or **PROMOSOLV™**.

Degreaser **TOPKLEAN™ MC 1007D** is compatible with all metals, alloys and also with glass and ceramic. It has no harmful effects on most of plastics and elastomers. It does not damage painted surfaces and is suitable to simultaneously eliminate varnish and lacquers on different materials.

**TOPKLEAN™ MC 1007D** eliminates efficiently all lubricant residues, greases, soot, rust flakes, tar, wax, non-hardened rosins, varnish, adhesive lacquer and pigments. It also removes efficiently mold release agents and shaving from bore holes, capillaries and all other complex geometric forms; thanks to its low surface tension. At a higher temperature (85°C max), it can remove dried and cracked residues from motor cylinder heads and other choked components presented to maintenance. **TOPKLEAN™ MC 1007D** deoxidises brass, copper and all copper alloys. With or without adding a little bit of water and adding sufficient energy, it removes polishing and grinding pastes, and other persistent industrial dirt. It is important to select the method and/or the cleaning machine the most appropriated in order to fulfil all cleaning requirements.

## SPECIFICATIONS

| Characteristics   | Units             | Values          |
|-------------------|-------------------|-----------------|
| Aspect            | -                 | Slightly yellow |
| Density (at 15°C) | g/cm <sup>3</sup> | 0.796 – 0.820   |

## CARACTERISTICS

| Types                                        | Units              | Values                  |
|----------------------------------------------|--------------------|-------------------------|
| Molecular weight                             | g/mole             | 160                     |
| Flash point (PMCC)                           | °C                 | Min 91°C / Typical 95°C |
| Viscosity (at 25°C)                          | mm <sup>2</sup> /s | 1.6                     |
| Refraction index (at 20°C)                   | -                  | 1.440 – 1.452           |
| Vapour pressure (at 20°C / 50°C)             | hPa                | 1.6/10                  |
| Surface tension (at 20°C)                    | mN/m               | 23                      |
| Latent heat of vaporization at boiling point | kJ/kg              | 320                     |
| Heat conductivity (at 20°C)                  | W/m.K              | 0.13                    |
| Specific heat (at 20°C/50°C)                 | kJ/kg.K            | 2.0/2.1                 |
| Distillation interval                        | °C                 | 225-305                 |
| Relative evaporation rate                    | nBuAc=1            | 0.18                    |
| Dielectric rigidity                          | kV/cm              | 200                     |
| Miscibility in water                         | -                  | Not miscible            |

## PACKAGING TYPE

Packaging types of 28 l and drums of 200 l available.

## STORAGE & SHELD LIFE

For advices on storage and handling, please contact our company or refer to the Safety Data Sheet.

Keep all products in closed packaging.  
Shelf life : 18 months.

## CONDITIONS OF USE

Degreaser **TOPKLEAN™ MC 1007D** is compatible with all metals, alloys and also with glass and ceramic. It has no harmful effects on most of plastics and elastomers. It does not damage painted surfaces and is suitable to simultaneously eliminate varnish and lacquers on different materials.

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**TOPKLEAN™ MC 1007D** is suitable for various applications, including :

- Spray equipments.
- For industrial cleaning operations requiring high temperatures (max 85°C) related to the nature of contamination, **TOPKLEAN™ MC 1007D** can be used successfully in association with special cleaning processes, such as “two phase multi-steps process” that Inventec has created. Some standard equipments or some known manufacturers recommend **TOPKLEAN™ MC 1007D**, followed with **INVENTEC's** products, **NOVEC™** or **PRMOSOLV™**.

**TOPKLEAN™ MC 1007D** is designed to replacement efficiently 111-trichloroethane and other chlorinated cleaning solvents. Systematic tests achieved in laboratory and users' experience show that its cleaning efficiency is at least equal to the replaced products. If necessary, drying can be improved by blowing oil-free compressed air, applying the appropriate work conditions. Cleaning with **TOPKLEAN™ MC 1007D** can provide a good temporary anti-corrosion protection. But it can also be rinsed with **NOVEC™** products in order to eliminate all residues of this agent, for thermal, vacuum-air treatments, and/or final cleaning before delivery.

## HSE

| Types                                   | Units              | Values |
|-----------------------------------------|--------------------|--------|
| Emission of m2 bath at (20°C/80°C)      | g/h.m <sup>2</sup> | 1.7/40 |
| Ozone depletion potential               | ODP                | 0      |
| Global warming potential                | GWP                | N/A    |
| <b>Toxicity</b><br>Exposure average: 8h | TLV ppm            | > 500  |
| VOC                                     | -                  | NO     |

**H phrases:**

- H 304** : May be fatal if swallowed and enters airways
- H 315** : Causes skin irritation
- H 319** : Causes serious eye irritation

**P phrases:**

- P 280** : Wear protective gloves/protective clothing/eye protection/face protection
- P301+P313** : If swallowed, immediately call a doctor:
- P 331**: Do NOT induce vomiting
- P332+P313** : If skin irritation occurs : Get medical advice/attention
- P337+P313** : If eye irritation persists : Get medical advice/attention
- P 501** : Dispose of contents / container to an authorized center in accordance with national regulation

**TOPKLEAN™ MC 1007D** can be recycled by vacuum distillation without affecting composition and properties. Contaminated **TOPKLEAN™ MC 1007D** can be recovered and eliminated like contaminated oils by specialised companies. For further information, please contact your distributor.

**TOPKLEAN™ MC 1007D** is not considered as a flammable product, but nevertheless as combustible material. In regular conditions of implementations, it can be used safely for the operator, the equipment, the workshop and environment. Before using **TOPKLEAN™ MC 1007D**, please refer carefully to the Material Safety Data Sheet. All appropriated security measures regarding fire and explosion risks must be taken. During handling or exposition to the product, the individual protection recommended by the Safety Data Sheet must be granted. The typical figures used here above can be changed without notice.

**TOPKLEAN™ MC 1007D** has a very low impact on environment and generates low emissions at use temperature. It has no ozone depletion potential. It is not soluble to water and is biodegradable. When contaminated with residues, it can be easily recovered and sent to disposal. This is a sum up of **TOPKLEAN™ MC 1007D** environmental characteristics, please refer to the Material Safety Data Sheet for further information.

*This data is based on information that the manufacturer believe to be reliable and offered in good faith. In no event will Inventec 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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