

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	Methods	Values
Aspect	-	Visual	Colourless
Density (at 20°C)	kg/m ³	ASTM D 4052	757

CHARACTERISTICS

Types	Units	Methods	Values
Molecular weight	g/mole	Calculated	160
Flash point (PMCC)	°C	ASTM D93	97
Viscosity (at 25°C)	mm ² /s	ASTM D 445	1.6
Refraction index (at 20°C)	-	ASTM D1218	1.446
Vapour pressure (at 20°C / 50°C)	hPa	No standard method	1.6/10
Surface tension (at 20°C)	mN/m	ASTM D971	23
Latent heat of vaporization at boiling point	kJ/kg	Calculated	320
Heat conductivity (at 20°C)	W/m.K	Calculated	0.13
Specific heat (at 20°C/50°C)	kJ/kg.K	Calculated	2.0/2.1
Distillation interval	°C	ASTM D1078	225-305
Relative evaporation rate	nBuAc=1	ASTM D3539	0.18
Dielectric rigidity	kV/cm	DIN/VDE 0370/5	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

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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	Methods	Values
Emission of m2 bath at (20°C/80°C)	g/h.m ²	Calculated	1.7/40
Ozone depletion potential	ODP	-	0
Global warming potential	GWP	-	N/A
Toxicity Exposure average: 8h	TLV ppm	-	> 500
VOC	-	-	YES

R phrases: R 65 : Harmful: May cause lung damage if swallowed
R 66 : Repeated exposure may cause skin dryness or cracking

S phrases: S 23 : Do not breathe vapour, fumes and spray
S 24 : Avoid contact with skin
S 62 : If swallowed do not induce vomiting: seek medical advice immediately and show this container or label

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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