

TOPKLEAN™ MC 1007



FEATURES

Used for the mechanic and micro-mechanic industry, **TOPKLEAN™ MC 1007** is a cleaning agent composed of aliphatic hydrocarbons of high flash point and a corrosion inhibitor.

Due to its high flash point (PMCC + 99°C), it is a **degreasing** agent that can be used at high temperature up to 85°C allowing the removal of solid residues such as **dried or cracked greases and polishing pastes**.



It can also be used safely in vapour phase machines as degreasing agent in co-solvent process types with NOVEC™ and PROMOSOLV™ products. Drying can be improved with **clean compressed air, warm air** or by using **Inventec's** products, **Novec™ or Promosolv™**.

SPECIFICATIONS

Characteristics	Units	Values	Methods
Appearance	-	Colourless	Visual
Density (at 20°C)	kg/m3	800	ASTM D 4052

CHARACTERISTICS

Types	Units	Values	Methods
Molecular weight	g/mole	194	calculated
Flash point (PMCC)	°C	97	ASTM D 93
Viscosity (at 25°C)	mm ² /s	2.8	ASTM D 445
Refraction index (at 20°C)	-	1.446	ASTM D 1218
Vapour pressure (at 20°C / 50°C)	hPa	0.1/1	No standard method
Surface tension (at 20°C)	nM/m	27	ASTM D 971
Latent heat of vaporization at boiling point	kJ/kg	350	calculated
Heat conductivity (at 20°C)	W/m.K	0.14	calculated
Specific heat (at 20°C/50°C)	kJ/kg.K	2.0/2.1	calculated
Distillation interval	°C	225-305	ASTM D 1078
Relative evaporation rate	NBuAc=1	< 0.01	ASTM D 3539
Dielectric rigidity	kV/cm	200	DIN/VDE 0370/5
Solubility in water	-	not soluble	-

PACKAGING TYPE

Packaging types of 21 l and drums of 200 l available.

STORAGE & SHELF 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.

PROCESS PARAMETERS

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

- 1) Usual machines of one-step cleaning with sprays under immersions; the parts are placed in a rotating cabin and are cleaned by the heated liquid.
- 2) For industrial cleaning operations requiring high temperatures (max 85C) related to the nature of contamination, **TOPKLEAN™ MC 1007** can be used successfully in association with special cleaning process, such as "two phase multi-steps process" that INVENTEC has created. Some standard equipments or some equipments customized by known manufacturers recommending **TOPKLEAN™ MC 1007**, are available for this process with **Inventec's** products, **Novec™** or **Promosolv™**.

TOPKLEAN™ MC 1007 is suitable especially for replacement of 111-trichloroethane and other chlorinated cleaning solvents. It can also be used for the multi operational cleaning and/or final cleaning of components at manufacturing, assembling and/or maintenance posts.

Systematic tests achieved in laboratory and users' experience show that its cleaning efficiency is at least equal to the replaced products.

Cleaning with **TOPKLEAN™ MC 1007** can provide a good temporary anti-corrosion protection. But it can also be rinsed with the NOVEC's products in order to eliminate all residues of this agent, for thermal, vacuum-air treatments, and/or final cleaning before delivery.

HSE

Characteristics	Units	Methods	Values
Emission of m ² bath at (20°C/50°C)	g/h.m ²	Calculated	1.7/40
Ozone depletion potential	ODP	-	0
Global warming potential	GWP	-	N/A
Toxicity Exposure average/8h	VME ppm	-	> 500
COV	-	-	NO

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.

Before using **TOPKLEAN™ MC 1007**, refer to the 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 1007 has a very low impact on environment and generates low emissions at use temperature. It has no ozone depleting potential. It is not miscible to water and it is biodegradable. **TOPKLEAN™ MC 1007** has no aromatic or chlorinated compounds, emulsifying agents and other complex chemical constituents, and therefore, it is less dangerous for health and more respectful of environment than traditional degreasing products.

This is a sum up of **TOPKLEAN™ 1007** impact on environment. For further information, please refer to the Safety Data Sheet.

The information contained in this product sheet is given for indicative purposes and in no way incurs the liability of INVENTEC. All users are liable, with respect to Administrative Authorities (regulation of facilities classified for the protection of the environment) for the compliance of their installation.

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