

# TOPKLEAN™ MC 1107



## FEATURES

Used for the mechanic and the micro-mechanic industry, **TOPKLEAN™ MC 1107** has been specially formulated for **degreasing** and **warm and cold cleaning** applications (class AIII flash point) for all kind of metals and materials.

**TOPKLEAN™ MC 1107** is a colourless, hydrocarbon based product with a low viscosity and light odour. It is composed of a mixture of aliphatic hydrocarbons, oxygenated polar compounds and a corrosion inhibitor. Its low surface tension and its use with ultrasonics provide remarkable cleaning qualities. Degreaser **TOPKLEAN™ MC 1107** is used in sumps with or without ultrasonics, vacuum or in open sumps. It can be **rinsed with INVENTEC's products, NOVEC™ 3M™ or PROMOSOLV™**. It also removes efficiently all lubricant residues and also mold release agents.



**TOPKLEAN™ MC 1107** 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 classical degreasing agents.

## SPECIFICATIONS

Characteristics	Units	Methods	Values
Aspect	-	Visual	Colourless
Density (at 20°C)	kg/m <sup>3</sup>	ASTM D4052	761

## CHARACTERISTICS

Types	Units	Methods	Values
Molecular weight	g/mole	Calculated	170
Flash point (PMCC)	°C	ASTM D 93	60
Viscosity (at 25°C)	mm <sup>2</sup> /s	ASTM D445	1.9
Refraction index (at 20°C)	-	ASTM D 1218	1.424
Vapour pressure (at 20°C / 50°C)	hPa	No standard method	1/6
Surface tension (at 20°C)	nM/m	ASTM D 971	23.5
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 D 1078	187-212
Relative evaporation rate	NBuAc=1	ASTM D 3539	0.09
Dielectric rigidity	kV/cm	DIN/VDE 0370/5	200
Explosive limits in air : lower	% volume	DIN 51649	0.57
Explosive limits in aire : upper	% volume	DIN 51649	5.1
Solubility in water	-	-	not soluble

## PACKAGING TYPE

Packaging types of 5 l, 21l 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

Degreaser **TOPKLEAN™ MC 1107** 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 1107** is generally recommended for small use of decentralized stations by paintbrush or hand spray. It can also be used by flushing and it is designed to replace 1,1,1 trichloroethane or any other chlorinated solvents. Systematic tests and experiment show that cleaning performances are at least as good that the replaced products. Drying can be improved with **clean compressed air, warm air** or by using **Inventec's** products, **Novec™** or **Promosolv™**.

**TOPKLEAN™ MC 1107** is used in open or closed tanks with or without ultrasonics. It can be easily filtered up to 1 micron to eliminate shavings. This product can be regenerated by vacuum-air distillation, including closed equipments type AIII.

## HSE

Characteristics	Units	Methods	Values
Emission by m <sup>2</sup> of bath at (20°C/50°C)	g/h.m <sup>2</sup>	calculated	16/75
Ozone depletion potential	ODP	-	0
Global warming potential	GWP	-	N/A
<b>Toxicity</b> Exposure average :8h	VME ppm	-	> 500
COV	-	--	YES
UN ONU	-	-	3295

<b>R phrases :</b>	<b>R 53 :</b>	May cause long-term adverse effects in the aquatic environment
	<b>R 65 :</b>	Harmful: May cause lung damage if swallowed
	<b>R 66 :</b>	Repeated exposure may cause skin dryness or cracking
<b>S phrases :</b>	<b>S 23 :</b>	Do not breathe vapour, fumes and spray
	<b>S 24 :</b>	Avoid contact with skin
	<b>S 61 :</b>	Avoid release to the environment. Refer to special instructions / Safety Data Sheet
	<b>S 62 :</b>	If swallowed do not induce vomiting: seek medical advice immediately and show this container or label

After use, **TOPKLEAN™ MC 1107** can be easily recovered and eliminated as entire contaminated oils by our company or some external companies. For further information, please contact our company.

Before using **TOPKLEAN™ MC 1107**, 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 1107** has a very low impact on environment and generates low emissions at use temperature. It has no ozone depletion potential. It is not miscible to water. **TOPKLEAN™ MC 1107** 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™ MC 1107** 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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