

TOPKLEAN™ MC 1151

INVENTEC
PERFORMANCE CHEMICALS



FEATURES

Used for the mechanic industry, **TOPKLEAN™ MC 1151** is a cleaning agent composed with a mixture of light odorous hydrocarbons.

TOPKLEAN™ MC 1151 has been created to fulfil a large range of cleaning and industrial degreasing applications for **cold sumps, with brush** or **with sprays in machines**.

This product can be rinsed in water.

It can be also mixed with water; the separation takes place by gravity.
Its high dielectric resistance allows it to be used to clean electrical equipments.



SPECIFICATIONS

Characteristics	Units	Methods	Values
Aspect	-	Visual	Colourless
Density (at 20°C)	kg/m ³	ASTM D4052	783

CHARACTERISTICS

Type	Units	Methods	Values
Molecular weight	g/mole	Calculated	160
Flash point (PMCC)	°C	ASTM D93	64
Viscosity (at 25°C)	mm ² /s	ASTM D445	1.6
Refraction index (at 20°C)	-	ASTM D1218	1.433
Vapour pressure (at 20°C/50°C)	hPa (mbar)	No standard method	1.6/10
Surface tension (at 20°C)	mN/m	ASTM D971	23
Distillation interval	°C	ASTM D1078	184-305
Relative evaporation rate	nBuAc=1	ASTM D3539	0.04
Dielectric rigidity	kV/cm	DIN/VDE 0370/5	200
Explosive limits in air: lower	% volume	DIN 51649	0.65 (42g/m ³)
Explosive limits in air: upper	% volume	DIN 51649	5.9 (380g/m ³)
Miscibility in water	-	-	Not miscible

PACKAGING TYPE

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

STORAGE & SHELF LIFE

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

PROCESS PARAMETERS

TOPKLEAN™ MC 1151 is used neat, with paintbrush or in cleaning process such as « two phase multi-step process ».

It can also be used as an emulsion mixed with water, in difficult cases, to remove dried emulsion residues, before being rinsed with an aqueous or solvent process.

Systematic tests and experiments show that cleaning performances are at least as good as the replaced products. Drying can be improved with **clean compressed air**, **warm air** or by using **INVENTEC's** products, **NOVEC™** or **PROMOSOLV™**.

HSE

Characteristics	Units	Methods	Values
Emission of m2 bath (20°C/50°C)	g/h.m ²	Calculated	8/48
Environmental data		-	
Ozone depletion potential	ODP	-	0
Global warming potential	GWP	-	N/A
Toxicity		-	
Exposure average : 8h	VME ppm	-	> 1000
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.

After use, **TOPKLEAN™ MC 1151** can be easily recovered and recycled or eliminated as entire contaminated oils by our company or some external companies. For further information, please contact our company.

Before using **TOPKLEAN™ MC 1151**, 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 1151 has a very low impact on environment and generates low emissions at use temperature. It has no ozone depletion potential.

This is a sum up of **TOPKLEAN™ MC 1151** impact on environment. For further information, please refer to the Safety Data Sheet.

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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