

TOPKLEAN™ MC 1110



FEATURES

Used for the mechanic and micro-mechanic industry, **TOPKLEAN™ MC 1110** has been specially formulated for **cold cleaning of all metals and all materials**.

TOPKLEAN™ MC 1110 is a colourless, concentrated hydrocarbon based product with a low viscosity and light odour, composed of a mixture of aliphatic hydrocarbons and oxygenated polar compounds. It replaces efficiently 1,1,1-trichloroethane and the other chlorinated solvents in these applications. Its low surface tension and its use with ultrasonics provide an exceptional degreasing power. **Drying** can be improved with **clean compressed air, warm air** or by using **INVENTEC's** products, **NOVEC™** or **PROMOSOLV™**.



TOPKLEAN™ MC 1110 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	Values	Methods
Aspect	-	Colourless	Visual
Density (at 20°C)	kg/m ³	834	ASTM D 4052
Viscosity (at 25°C)	mm ² /s	1.2	ASTM D 445

CHARACTERISTICS

Types	Units	Values	Methods
Molecular weight	g/mole	160	calculated
Flash point (PMCC)	°C	40	ASTM D93
Vapour pressure (at 20°C / 50°C)	hPa	2/8	no standard method
Cinematic viscosity at 25°C	mm ² /s	1.2	ASTM D445
Water content	% weight	max 0.1	ASTM E1364
Aromatics	% weight	max 0.01	SMS 2728
Non volatile residues	g/100ml	max 0.01	ASTM D1353
Surface tension (at 20°C)	mN/m	25	ASTM D971
Heat conductivity (at 20°C)	W/m.K	2.0/2.1	calculated
Distillation interval	°C	150-170	no standard method
Relative evaporation rate	nBuAc=1	< 1	ASTM D3539
Miscibility in water	-	partially soluble	-

PACKAGING TYPE

Packaging types of 20 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 1110 has been especially developed for degreasing/cold cleaning applications. It removes efficiently all lubricant residues such as gearbox oils, motor oils, thick oils, hydraulic oils, insulation oils, oils to protect from corrosion, cutting oils, greases, paraffin waxes, and some varnishes. It also removes efficiently mold release agents and shavings from blind holes, capillaries and all other complex geometric forms, thanks to its low surface tension. In some cases, adding a little bit of water and bringing enough mechanic energy, it removes all other persistent industrial dirt.

TOPKLEAN™ MC 1110 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 clean different materials

TOPKLEAN™ MC 1110 is generally recommended for small use of decentralized stations by paintbrush or hand spray. It can also be used by flushing for replacement of 1,1,1 trichloroethane or any other chlorinated solvents used cold. Systematic tests and experiment 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™**.

Do not use this product in machines where the solvent will be heated, if these equipments are not in accordance with the regulation relative to the implementation of flammable liquids.

HSE

Types	Units	Values
Environmental data		
Ozone depletion potential	ODP	0
Global warming potential	GWP	N/A
Toxicity		
Exposure average : 8h	TLV ppm	> 1000
COV	-	YES
UN number	-	1993

R phrases :	R 10 :	Flammable.
	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 1110** 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 1110**, 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 1110 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 1110** 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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