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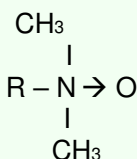
APROVADO

Dep. Qualidade

OXIDET[®] DM-4

- Amine Oxide
- Fragrances solubilizer and thickener in bleaches based on Sodium Hypochlorite
- Non-ionic / cationic surfactant (pH dependant)

CHEMICAL IDENTIFICATION



R = C14

Chemical Name : Alkyl Dimethyl Amine Oxide

CAS Number : 3332 – 27 - 2

TECHNICAL SPECIFICATIONS

		Kao Method
COLOUR (Gardner) :	1 max.	KCSA-222
ACTIVE MATTER (Mw = 257, %) :	29 - 31	KCSA-129
FREE AMINE (Mw = 241, %) :	1.0 max	KCSA-112
PEROXIDES VALUE (as H ₂ O ₂ , %) :	0.2 max	KCSA-040
pH (5% in water) :	6.5 - 8.5	KCSA-014



OXIDET® DM-4

TYPICAL PROPERTIES

APPEARANCE (20°C) :	Yellowish transparent liquid
SOLUBILITY IN WATER (g/ml) :	Soluble
VISCOSITY :	Slightly viscous liquid
MELTING POINT (°C) :	-2 / 4
DROPPING POINT (°C) :	Around + 8
ALKYL CHAIN (%) :	C14
HEAVY METALS (ppm) :	Cobalt : < 0.5 Iron : < 0.5 Nickel : < 0.5 Chromium : < 0.5
CHARACTER :	Non-Ionic / Cationic (pH dependence)

APPLICATION PROPERTIES

- OXIDET® DM-4 is an excellent foaming stabiliser in blends of anionic and amphoteric surfactants. Its addition increases the detergency level of the mixture. It can be used in washing-up liquids and in cleaners in general, but its main application is in bleaches based on sodium hypochlorite.
- OXIDET® DM-4 is stable in sodium hypochlorite solutions at basic pH. In perfumed and thick bleaches it is used as fragrance solubilizer and thickener. It is especially advisable in bleaches where the sodium hypochlorite concentration is below 30 g/L, due to its superior effectiveness as thickener when compared to coconut or lauryl amine oxides. Those products are used when the active chlorine concentration is higher.
- OXIDET® DM-4 is also stable in front of electrolytes and hard water.

STORAGE – HANDLING – SHELF LIFE

- OXIDET® DM-4 is chemically stable for a long period of time under appropriate storage conditions (temperature of 25°C and original unopened container).
- In the case of long storage time, it is advisable to homogenize the product before its use, especially if it has been submitted to low temperatures. Small changes in the appearance can be easily recovered by applying a moderate agitation at 25-30°C. A general advice is to use the complete container every time.
- The shelf life of OXIDET® DM-4 can be considered of 2 years minimum under proper storage conditions. After longer storage time some of its characterising parameters (*odour, appearance, colour, pH,...*), should be checked before using it.
- Avoid direct sunlight.

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