SEPICIDE™ LD

Preservative

- **biocide effect in cosmetics and toiletries**
- **good solvent properties for fragrances**

CONTENTS

1 - DESCRIPTION

SEPICIDE™ CI is a glycol ether exhibiting good solvent properties for fragrances as well as biocide effect in cosmetics and toiletries.

Ethylène glycol mono phenyl ether
Phenoxy ethanol
Phenoxetol

2 - CHEMICAL FORMULA

$C_6 H_5 O CH_2 CH_2 OH$ MW = 138

ANALYSIS	LIMITS	METHODS
Characteristics		
Appearance	Oily liquid	Visual
Specific gravity at 20° C	1,109	
Boiling point (760 nm/Hg)	247,5° C	BP 63
Melting point	about 14° C	
Refraction index at 20° C	about 1,536	U tube Abbe
Solubility		
Water	2 % max.	
Ethanol	soluble	
Vegetable oil	soluble	
Mineral oil	2 % max.	
Specifications		
Phenol content	0,1 % max.	SEPPIC 006 A
Phenoxyethanol content	98 % min.	SEPPIC 052 A
Water content	0,1 % max.	SEPPIC 020 A
coloration	20 max.	APHA

3 - BACTERIOLOGICAL ACTIVITY

MICRO ORGANISMS	MIC %
Bacteria	
Gram -:	
Pseudomonas aeruginos	0,32
Escherichia coli	0,36
Gram +:	
Staphylococcus aureus	0,85
Yeast	
Candida albicans	0,54

4 - MAIN APPLICATIONS

- Good activity against gram-negative micro organisms, particularly Pseudomonas aeruginosa at about 0,5 %;
- at higher concentrations (1 %) phenoxyethanol becomes active against gram positive micro organism and yeasts;
- associations with GERMAIL™ II (0,2 %), SEPICIDE™ CI (0,3 %) and/or parabens are effective;
- activity is maintained between pH 4 and 9;
- the partition coefficient of phenoxyethanol favors the aqueous phase especially in mineral oil formulations and therefore affords better protection;
- phenoxyethanol is a good humectant and emollient;
- it is excellent solvent
- phenoxyethanol has very low toxicity

ECC POSITIVE LIST OF PRESERVATIVES
phenoxyethanol is allowed up to 1 % as preservative

CTFA NAME: Phenoxyethanol
BRITISH PHARMACOPEIA 1963 Phenoxetol

Nota

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product.

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* SEPPIC being : and, depending on the country :

SEPPIC S.A.
75, quai d'Orsay
75321 Paris cedex 07
FRANCE
Tel. : +33 (0) 1 40 62 55 55
Fax : +33 (0) 1 40 62 52 53

SEPPIC UK Ltd
50 Salisbury Road
PO Box 338 - Hounslow
TW4 6SH - ENGLAND
Tel. : +44 208 577 8800
Fax : +44 208 570 2106

SEPPIC ITALIA Srl
Via Quarenghi 27
20151 Milano
ITALY
Tel. : +39 02 38009110
Fax : +39 02 38009140

GIVAUDAN LAVIROTTE S.A.
56, rue Paul Cazeneuve
BP 8344 – 69008 Lyon
FRANCE
Tel. : +33 (0) 4 78 61 55 00
Fax : +33(0) 4 72 05 60 89

SEPPIC Inc.
30, Two Bridges Road, suite 210
Fairfield, New Jersey 07004-1530
USA
Tel. : +1 973 882 5597
Fax : +1 973 882 5178

SEPPIC Chine
Room 510 Jin Tai Building
58 South Mao Ming Road
Shanghai 200020 CHINA
Tel. : +86 (21) 64 66 01 49
Fax : +86 (21) 64 66 11 09

SEPPIC GmbH
ABC Tower Köln
Ettore - Bugatti - Str.6-14
51149 Köln-Porz
GERMANY
Tel. : +49 (0) 220 3890 3100
Fax : +49 (0) 220 3890 3199

SEPPIC Belgium NV
Nieuwe Weg 1
Haven 1053
B – 2070 Zwijndrecht
BELGIUM
Tel. : +32 3 250 3911
Fax : +32 3 250 3912

www.seppic.com

Subsidiary of the AIR LIQUIDE group

2675/GB/01/July 2004