



# Preservative Phenoxyethanol

## Preservative for technical products

- Good head space protection
- Stable to hydrolysis, temperature and pH

Active substance		
EINECS-Name:	CAS-No.	EC-No.
2-Phenoxyethanol	122-99-6	204-589-7

Physico-chemical properties	
Colour	colourless
Form	Liquid
Odour	characteristic
Density (20 °C)	1.103 - 1.108 g/ml
solidification temperature	ca. 13 °C
Boiling point/boiling range	245 °C
Flash point (DIN 51758)	120 °C
Viscosity (20 °C)	ca. 30 mPa*s
Water solubility (20 °C)	24 g/l
Foaming characteristics	Non foaming
VOC-Content to Directive 2004/42/EC	100 %
pH (10 g/l)	ca. 6

Fields of application		
The optimum use level should be evaluated by means of a repeated challenge test (e.g. at schülke Technical and Microbiological department). <b>Use biocides safely. Always read the label and product information before use.</b>		
	Recommended dosage	
Dispersion paints, coatings, plaster, polymer dispersions, adhesives, sealants, starch solutions, detergents, concrete admixtures	5 - 10 g/kg	(0.5 - 1.0 %)
Other applications	Kindly contact us.	

Indications for use	
General Information	Phenoxyethanol is fully effective both in anionic as well as cationic systems. Effective in pH ranges up to 12
Solubility(ies)	In water and non-polar solvents only limitedly soluble. To dissolve Phenoxyethanol in water, an agitator with good turbulence is necessary. In polar solvents readily soluble.
Compatibility with surfactants	Phenoxyethanol proved to have good chemical compatibility with anionic surfactants such as sulphates, ether sulphates and sulphosuccinates, as well as with non-ionogenic surfactants. Ethoxylated surfactants may lead to loss of effectiveness.
Compatibility with sulphite ions	Phenoxyethanol exhibits no interaction with sulphite ions.
Recommended use pH range	< 12
Maximum use temperature	> 100 °C

Microbiological efficacy					
The efficacy of the product has been tested against the following microorganisms according to DGHM (German Society for Hygiene and Microbiology). Determination of the minimum inhibitory concentration in the serial dilution test produced the following values (MIC in % of the product):					
Bacteria (gram-negative)	MIC	Bacteria (gram-positive)	MIC	Yeasts	MIC
<i>Escherichia coli</i>	0.50	<i>Staphylococcus aureus</i>	1.00	<i>Candida albicans</i>	0.50
<i>Pseudomonas aeruginosa</i>	0.50			Moulds	MIC
				<i>Aspergillus niger</i>	0.50
				<i>Penicillium funiculosum</i>	0.25



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Compatibility*		
	compatible	to be avoided
concentrate	stainless steel, brass, copper, zinc, aluminium, polyethylene, PVC (hard), ethylene-propylene-terpolymer (EPDM), polytetrafluoroethylene (PTFE)	polycarbonate, polymethyl methacrylate (PMMA), acrylo-nitrile butadiene styrene polymer (ABS), sealants other than mentioned
aqueous dilution (1.0 %)	No significant difference to water	Water incompatible materials

\*Compatibility has to be proved in each case

Labelling	
Hazard statements	H319, H302
Precautionary statements	P280, P301 + P312, P330, P305 + P351 + P338, P337 + P313
Labelling	Warning - GHS07 (Exclamation mark)
	For further hazard instructions and safety advice please refer to the actual material safety data sheet.

**Environmental information**  
Phenoxyethanol contains only biodegradable components. Dilutions of Phenoxyethanol do not normally interfere with the operation of waste water treatment plants. The canisters and drums used by schü ke are made of polyethylene (HDPE) and are labelled accordingly. The 1000 kg containers are covered by a return scheme that ensures collection of the used containers free of charge and appropriate reuse all over Europe. The labels are made of PE. schü ke packaging materials contain no PVC and can be recycled. For further information please ask for our detailed environmental report.

Listings and approvals of active ingredients
EINECS / ELINCS (Europe)
TSCA (USA)
ECL (Korea)
DSL / NDSL (Canada)
ENCS (Japan)
PICCS (Philippines)
IECSC (China)
AICS (Australia)
FDA 175.105

Transport & Storage	
Dangerous goods	No
UN number	-
Packaging group	-
Package sizes	230 kg, 1100 kg
Shelf life	24 months
Storage	Protect from frost, heat and direct sunlight. Store at room temperature in the original container.

We confirms that the biocidal active substance used in our biocidal product Phenoxyethanol is sourced from supplier listed in the Article 95 (EU 528/2012 = Biocidal Products Regulation)-list of active substances and suppliers- for the product type 6 and 13.