

# UNICIDE U-13

## PRESERVATIVE FOR COSMETICS AND OTHER EXTERNALS

<b>Content</b>	Unicide U-13 is a stable, imidazolidinyl urea compound. Its activity is due to the release of formaldehyde in topical formulations.																											
<b>Appearance</b>	White and odorless powder.																											
<b>Analytical data</b>	See specifications.																											
<b>Solubility</b>	Easily soluble in water and aqueous alcohol; slightly soluble in pure alcohol; insoluble in lipoids.																											
<b>Properties</b>	<p>Broad spectrum of antimicrobial activity, no sensitization of the skin, no skin resorption, non-toxic, see literature references (CIR Report 1980 / 2002)</p> <p>Unicide U-13 shows bacteriostatic and/or bactericidal activity against the following micro organisms:</p> <table> <tr> <td>Sth. Aureus</td> <td>B. cereus</td> <td>C. albicans</td> </tr> <tr> <td>Sth. aureus (penicillin resistant)</td> <td>A. aerogenes</td> <td>L. casei</td> </tr> <tr> <td>E. coli</td> <td>Ps. aeruginosa</td> <td>P. vulgaris</td> </tr> <tr> <td>B. ammoniogenes</td> <td>Sth. epidermis</td> <td>L. bifidus</td> </tr> <tr> <td>B. subtilis</td> <td>Sth. faecalis</td> <td>M. gypseum</td> </tr> <tr> <td>Sth. albus</td> <td>T. mentagrophytes</td> <td>M. rubens</td> </tr> <tr> <td>P. ovale</td> <td>St. pyogenes</td> <td>M. luteus</td> </tr> <tr> <td>C. acnes</td> <td>S. typhosa</td> <td>N. asteroides</td> </tr> <tr> <td>Flavobacterium solari</td> <td></td> <td></td> </tr> </table>	Sth. Aureus	B. cereus	C. albicans	Sth. aureus (penicillin resistant)	A. aerogenes	L. casei	E. coli	Ps. aeruginosa	P. vulgaris	B. ammoniogenes	Sth. epidermis	L. bifidus	B. subtilis	Sth. faecalis	M. gypseum	Sth. albus	T. mentagrophytes	M. rubens	P. ovale	St. pyogenes	M. luteus	C. acnes	S. typhosa	N. asteroides	Flavobacterium solari		
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<b>Use</b>	Preservative, mainly for the water phase of cosmetic products.																											
<b>Dosage</b>	0.2 - 0.6%. Maximum allowed concentration in a finished product within the EU is 0.6% (EU Annex VI, Part 1, Reference No: 27).																											
<b>Storage</b>	5°C - 25°C (see safety data sheet)																											
<b>Shelf life</b>	2 years (see specification)																											

### Identification

<b>INCI Monograph ID</b>	<b>INCI Name</b>	<b>Chinese Name</b>	<b>CAS No.</b>
1279	Imidazolidinyl Urea	咪唑烷基脲	39236-46-9

### EU Cosmetic Regulation, Annex VI LIST OF PRESERVATIVES ALLOWED IN COSMETIC PRODUCTS

EU Reference #: 27

<b>INCI Name:</b>	<b>Imidazolidinyl Urea</b>
Status:	allowed
Maximum Authorized Concentration:	0.6%
Limitations and Requirements:	None

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# UNICIDE U-13

**Conditions of use and warnings which must be printed on the label:**

All finished products containing formaldehyde or substances in ANNEX VI which release formaldehyde must be labeled with the warning "**contains formaldehyde**" where the concentration of formaldehyde in the finished product exceeds 0.05%.

**References**

1. Berke, P.A. and Rosen, W.E. *Amer.Perf. & Cosm.* **85** (3), 55-59 (1970).
2. Berke, P.A. and Rosen, W.E. *Kosmetika* **3** (2), 33-40 (1975).
3. Bruch, C.W. *Amer. Perf. & Cosm.* **86** (4), 45-50 (1971).
4. CIR Review , Cosmetic Ingredient Review (1980)

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The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. It is the responsibility of the user to comply with all applicable laws and regulations. *Our indications and recommendations have been worked out to the best of our knowledge and conscience, but without any obligation from our part. In particular, we do not take any responsibility concerning protection rights of a third party.*