

Guide to preservative selection

| Product categories Types of cosmetic products | Suggested preservative system | | | | | | | | | |
|---|-------------------------------|-------------|---------------------|----------|--------------------|-----------|---------------------------------|--------------|-------------------|----------|
| | Halogens-free | | Formaldehyde-free | | Parabens-free | | Formaldehyde free Parabens-free | | Preservative-free | |
| Aqueous-based cosmetics › Solutions › Serums › Tonics › Gels › Gel masks › Nail polishes & removers › Sprays | Preservative A15 | 0.2-0.4%+AF | Kemaben ME | 0.5-1.0% | Kemidant Plus | 0.1-0.3% | Kem Plus | 0.02-0.1%+AB | Stabil | 0.8-1.2% |
| | Preservative A2 | 0.1-0.3%+AF | Kemaben 4 | 0.3-0.6% | Kemidant K (pH ≤6) | 0.3-0.5% | Kem Plus 2 | 0.5-0.8% | | |
| | Kemidant | 0.1-0.3%+AF | Kemaben 4IB | 0.3-0.6% | | | Kem K (pH ≤6) | 0.5-0.8% | | |
| | Kemidant L | 0.2-0.5%+AF | Kemaben 5 | 0.5-1.0% | | | Kem NK (pH ≤5.5) | 0.6-1.0% | | |
| | Kemidant L40 | 0.3-0.7%+AF | Kemaben DHA (pH ≤6) | 0.5-1.0% | | | Kem PBD (pH ≤6) | 0.5-1.0% | | |
| | Kem 30 | 0.2-0.5% | | | | | Kem E (pH ≤5.5) | 0.5-1.0% | | |
| | Kemaben | 0.5-1.0% | | | | | Kem DHA (pH ≤6.5) | 0.4-0.6% | | |
| | Kemaben M | 0.5-1.0% | | | | | Kem BS (pH ≤5.5) | 0.3-1.0% | | |
| Kemaben 2 | 0.5-1.0% | | | | | | | | | |
| Surfactant-based cosmetics › Shampoos › Hair conditioners › Bubble baths › Shower gels › Handcleaners › Intimates › Raw materials | Preservative A15 | 0.1-0.3%+AF | Kemaben ME | 0.3-0.8% | Kemidant Plus | 0.05-0.2% | Kem Plus | 0.05-0.2%+AB | Stabil | 0.8-1.2% |
| | Preservative A2 | 0.1-0.2% | Kemaben 4 | 0.2-0.6% | Kemidant K (pH ≤6) | 0.2-0.4% | Kem Plus 2 | 0.4-0.6% | | |
| | Kemidant | 0.05-0.2% | Kemaben 4IB | 0.2-0.6% | | | Kem K (pH ≤6) | 0.4-0.6% | | |
| | Kemidant L | 0.2-0.5% | Kemaben 5 | 0.5-0.8% | | | Kem NK (pH ≤5.5) | 0.5-1.0% | | |
| | Kemidant L40 | 0.3-0.7% | Kemaben DHA (pH ≤6) | 0.4-0.8% | | | Kem PBD (pH ≤6) | 0.5-0.8% | | |
| | Kem 30 | 0.1-0.2% | | | | | Kem E (pH ≤5.5) | 0.5-0.8% | | |
| | Kemaben | 0.5-0.8% | | | | | Kem DHA (pH ≤6.5) | 0.2-0.5% | | |
| | Kemaben M | 0.5-0.8% | | | | | Kem BS (pH ≤5.5) | 0.2-0.8% | | |
| Kemaben 2 | 0.3-0.8% | | | | | | | | | |
| Kemaben 2E | 0.3-0.8% | | | | | | | | | |

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| Emulsions › Lotions › Creams › Sprayable lotions › Foundations › Mascaras › Clay masks | Preservative A15 | 0.2-0.4%+AF | Kemaben ME | 0.5-1.0% | Kemidant Plus | 0.1-0.3% | Kem Plus | 0.1-0.3%+AB | Stabil | 1.0-1.4% |
| | Preservative A2 | 0.1-0.3%+AF | Kemaben 4 | 0.4-1.0% | Kemidant K (pH ≤6) | 0.4-0.6% | Kem Plus 2 | 0.5-1.0% | | |
| | Kemidant | 0.1-0.3%+AF | Kemaben 4IB | 0.4-1.0% | | | Kem K (pH ≤6) | 0.7-1.0% | | |
| | Kemidant L | 0.2-0.6%+AF | Kemaben 5 | 0.8-1.5% | | | Kem NK (pH ≤5.5) | 0.8-1.2% | | |
| | Kemidant L40 | 0.3-0.8%+AF | Kemaben DHA (pH ≤6) | 0.6-1.0% | | | Kem PBD (pH ≤6) | 0.7-1.2% | | |
| | Kem 30 | 0.3-0.5% | | | | | Kem E (pH ≤5.5) | 0.8-1.0% | | |
| | Kemaben | 0.5-1.0% | | | | | Kem DHA (pH ≤6.5) | 0.5-0.8% | | |
| | Kemaben M | 0.5-1.0% | | | | | Kem BS (pH ≤5.5) | 0.5-1.0% | | |
| | Kemaben 2 | 0.5-1.0% | | | | | | | | |
| Kemaben 2E | 0.5-1.0% | | | | | | | | | |
| Oil-based cosmetics › Oils › Sticks › Waxes › Lipogels | | | Kemaben ME | 0.3-0.6% | | | Kem Plus | 0.05-0.2% | Stabil | 0.6-0.8% |
| | | | Kemaben 4 | 0.2-0.4% | | | Kem Plus 2 | 0.4-0.6% | | |
| | | | Kemaben 4IB | 0.2-0.4% | | | Kem PBD (pH ≤6) | 0.5-0.8% | | |
| | | | Kemaben 5 | 0.4-0.7% | | | | | | |
| | | | Kemaben DHA (pH ≤6) | 0.3-0.5% | | | | | | |
| Wet wipes › Cleansing › Make up remover › Baby › Intimate hygiene › Sunscreens | Preservative A15 | 0.2-0.4%+AF | Kemaben ME | 0.8-1.2% | Kemidant Plus | 0.1-0.3% | Kem Plus | 0.1-0.3%+AB | Stabil | 1.0-1.4% |
| | Preservative A2 | 0.1-0.3%+AF | Kemaben 4 | 0.6-1.0% | Kemidant K (pH ≤6) | 0.5-0.8% | Kem Plus 2 | 0.5-1.0% | | |
| | Kemidant | 0.1-0.3%+AF | Kemaben 4IB | 0.6-1.0% | | | Kem K (pH ≤6) | 0.7-1.0% | | |
| | Kemidant L | 0.2-0.7%+AF | Kemaben 5 | 0.6-1.6% | | | Kem PBD (pH ≤6) | 0.8-1.2% | | |
| | Kemidant L40 | 0.3-0.9%+AF | Kemaben DHA (pH ≤6) | 0.6-1.2% | | | Kem E (pH ≤5.5) | 0.8-1.2% | | |
| | Kem 30 | 0.3-0.5% | | | | | Kem DHA (pH ≤6.5) | 0.5-1.0% | | |
| | Kemaben | 0.6-1.2% | | | | | Kem BS (pH ≤5.5) | 0.5-1.0% | | |
| | Kemaben M | 0.8-1.2% | | | | | | | | |
| | Kemaben 2 | 0.6-1.2% | | | | | | | | |
| Kemaben 2E | 0.5-1.0% | | | | | | | | | |



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| Solid cosmetics ➤ <i>Talcums</i> ➤ <i>Eyeliners</i> ➤ <i>Eyeshadows</i> ➤ <i>Pressed powders</i> | Preservative A15 | 0.1-0.3%+AF | Kemaben ME | 0.3-0.6% | Kemidant Plus | 0.05-0.2% | Kem Plus 2 | 0.4-0.6% | Stabil | 0.6-0.8% |
| | Preservative A2 | 0.1-0.2% | Kemaben 4 | 0.2-0.4% | Kemidant K (pH ≤6) | 0.2-0.4% | Kem K (pH ≤6) | 0.4-0.6% | | |
| | Kemidant | 0.05-0.2% | Kemaben 4IB | 0.2-0.4% | | | Kem PBD (pH ≤6) | 0.2-0.6% | | |
| | Kem 30 | 0.1-0.2% | Kemaben 5 | 0.4-0.7% | | | Kem E (pH ≤5.5) | 0.4-0.7% | | |
| | Kemaben | 0.5-0.8% | Kemaben DHA (pH ≤6) | 0.2-0.5% | | | Kem DHA (pH ≤6.5) | 0.5-0.8% | | |
| | Kemaben M | 0.5-0.8% | | | | | Kem BS (pH ≤5.5) | 0.2-0.6% | | |
| | Kemaben 2 | 0.3-0.8% | | | | | | | | |

AF = antifungal agent (parabens, IPBC, Sorbic acid/Potassium sorbate, Benzoic acid/ Sodium benzoate, Dehydroaceti acid/ Sodium dehydroacetate etc.)

AB = antibacterial agent (Imidazolidinyl urea, Diazolidinyl urea, DMDM Hydantoin, Phenoxyethanol, Benzyl alcohol etc)