

Preliminary Formaldehyde Releasers Identified Through Research for the Toxic-Free Cosmetics Act



Toxic-Free Cosmetics Product Testing

This table contains our preliminary list of 47 formaldehyde releasers identified during the initial research to inform the rulemaking process. The list contains the chemical names and associated Chemical Abstract Service (CAS) Registry Numbers.

We included broad cosmetic product categories in which each chemical is used, and specific types of cosmetic products that may cause disproportionate impact to people of color or workers.

Contact Information

Contact our Toxic-Free Cosmetics Team, ToxicFreeCosmetics@ecy.wa.gov.

Website: [Toxic-Free Cosmetics Act - Washington State Department of Ecology](#)¹

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¹ <https://ecology.wa.gov/tfca>

² www.ecology.wa.gov/accessibility

Table 1: Formaldehyde Releasers

List#	Chemical Name	CAS#	Absorbent hygiene†	Bath products†	Color cosmetics†	Deodorants†	Fragrances†	Hair products†	Oral hygiene†	Shaving†	Skincare†	Makeup*	Hair styling/treatments*	Facial cleansers*	Intimate hygiene*	Nail polish*
1	DMDM Hydantoin	6440-58-0	Y	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	Y	Y	Y
2	Diazolidinyl Urea	78491-02-8	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
3	Imidazolidinyl Urea	39236-46-9	U	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
4	Quaternium-15	4080-31-3; 51229-78-8	U	Y	Y	U	Y	Y	U	Y	Y	Y	Y	Y	Y	Y
5	Tosylamide/ Formaldehyde Resin (PTSAF)	25035-71-6	U	U	Y	U	U	U	U	U	Y	U	U	U	U	Y
6	2-Bromo-2- Nitropropane-1,3-Diol (Bronopol)	52-51-7	Y	Y	Y	Y	U	Y	U	Y	Y	Y	Y	Y	Y	Y
7	Sodium Hydroxymethyl- glycinate	70161-44-3	U	Y	Y	Y	U	Y	U	U	Y	Y	Y	Y	Y	U
8	Polyoxymethylene Urea	9011-05-6; 68611-64-3	U	Y	Y	U	U	U	U	U	Y	Y	U	U	Y	U
9	Glyoxal	107-22-2	U	Y	Y	U	U	Y	U	Y	Y	Y	Y	U	U	U
10	Methenamine	100-97-0	U	U	U	U	U	Y	U	U	Y	U	U	U	U	U
11	Polyoxymethylene Melamine	9003-08-1	U	U	Y	U	U	Y	U	U	U	U	U	U	U	Y
12	MDM Hydantoin	116-25-6; 27636-82-4; 16228-00-5	U	U	U	U	U	U	U	U	Y	U	U	U	U	U
13	Methylal	109-87-5	U	U	U	U	U	U	Y	U	U	U	U	U	U	U
14	Tris-Hydroxymethyl- nitromethane	126-11-4	Y	U	U	U	U	U	U	Y	U	Y	U	U	U	U
15	Dimethylol urea	140-95-4	U	U	U	U	U	U	Y	U	U	U	U	U	U	U
16	Dimethylol Glycol	3586-55-8	U	Y	U	U	U	U	U	U	U	U	U	U	U	U
17	Dimethylol Urea	68002-18-6	U	U	Y	U	U	U	U	U	U	U	U	U	U	U
18	1,3,5-Triethylhexahydro-s-triazine	7779-27-3	U	U	U	U	U	U	U	U	U	U	U	U	U	U
19	1,3-Dimethyl-4,5-dihydroxyethylene-urea	3923-79-3	U	U	U	U	U	U	U	U	U	U	U	U	U	U

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20	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol (HHT)	4719-04-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
21	Tris(N-Hydroxyethyl) Hexahydrotriazine	461-72-3	U	U	U	U	U	U	U	U	U	U	U	U	U	U
22	3,4,4-trimethyloxazolidine	75673-43-7	U	U	U	U	U	U	U	U	U	U	U	U	U	U
23	4,4-Dimethyloxazolidine	51200-87-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
24	Dimethyl Oxazolidine	5625-90-1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
25	Timonacic	444-27-9	U	U	U	U	U	U	U	U	U	U	U	U	U	U
26	5-Bromo-5-Nitro-1,3-Dioxane (Bronidox)	30007-47-7	U	U	U	U	U	U	U	U	U	U	U	U	U	U
27	Benzylhemiformal	14548-60-8	U	U	U	U	U	U	U	U	U	U	U	U	U	U
28	Bioban CS-1135	81099-36-7	U	U	U	U	U	U	U	U	U	U	U	U	U	U
29	7-Ethylbicyclo-oxazolidine (Bioban CS1246)	7747-35-5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
30	Bioban P-1487	37304-88-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
31	Dihydroxydimethylolethyleneurea, methylated	68411-81-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
32	Dimethylhydantoin formaldehyde (DMHF)	26811-08-5; 9065-13-8	U	U	U	U	U	U	U	U	U	U	U	U	U	U
33	Dimethyloldihydroxyethylenurea	1854-26-8	U	U	U	U	U	U	U	U	U	U	U	U	U	U
34	Dimethylolethylenurea	136-84-5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
35	Dimethylolpropylene urea	3270-74-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
36	Forcide 78	77044-78-1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
37	Glyoxalurea	3720-97-6	U	U	U	U	U	U	U	U	U	U	U	U	U	U
38	Methylol urea	1000-82-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
39	N,N'-Methylenebis(5-methyloxazolidine)	66204-44-2	U	U	U	U	U	U	U	U	U	U	U	U	U	U

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40	N-methylethanolamine	34375-28-5	U	U	U	U	U	U	U	U	U	U	U	U	U	U
41	N-Methylol-chloracetamide	2832-19-1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
42	Paraformaldehyde	30525-89-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
43	Polyoxymethylene	9002-81-7	U	U	U	U	U	U	U	U	U	U	U	U	U	U
44	Bis(benzylloxy)methane (Trade name Preventol D2)	2749-70-4	U	U	U	U	U	U	U	U	U	U	U	U	U	U
45	Tetramethylol-glycoluril	5395-50-6	U	U	U	U	U	U	U	U	U	U	U	U	U	U
46	Thiazolidine-4-carboxylic acid	60731-25-1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
47	Tris(N-hydroxyethyl)hexahydrotriazine	25254-50-6	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Key:

† Used in Product Categories

*Disproportionate exposure

Y= Yes

U=Unknown