



Replace, Rebalance, Reformulate

Ingredient Options for Formulating
Low 1,4-Dioxane Personal Care Products

www.carecreations.basf.us

 **BASF**

We create chemistry

 **Flex**
Low 1,4-Dioxane
Ingredients

Working Together to Reduce 1,4-Dioxane in Personal Care Formulations

1,4-Dioxane is a water-miscible trace contaminant that forms as a by-product during the manufacturing process of certain surfactants, emulsifiers and solvents. Recent government reports have identified 1,4-Dioxane as a potential human carcinogen. New York passed a law aimed at reducing the amount of 1,4-Dioxane in personal care products, and California is considering 1,4-Dioxane in personal care products under Safer Consumer Products regulation.

To support formulators' efforts to reduce 1,4-Dioxane and meet new regulations, BASF is:

- Expanding *Flex*, our new line of low 1,4-Dioxane ingredients
- Launching digital tools to analyze and help optimize finished formulations
- Making our team of formulation experts available to make recommendations
- Testing for 1,4-Dioxane frequently at all our production sites
- Investing in state-of-the-art manufacturing and analytical technology to meet aggressive 1,4-Dioxane limits

State actions

New York State Senate and Assembly passed a law to limit the presence of 1,4-Dioxane in household cleaning, cosmetic and personal care products.



Personal Care Products	Cosmetic Products
2 ppm by December 31, 2022	10 ppm by December 31, 2022
1 ppm by December 31, 2023	

California State Department of Toxic Substance Control (DTSC) is assessing 1,4-Dioxane in personal care products with an expected decision within three years.



What is *Flex*?

Flex is BASF's portfolio of ingredients designed to offer formulation flexibility and help you comply with 1,4-Dioxane limits for finished personal care products ahead of the State of New York December 31, 2022 deadline.

Our *Flex* portfolio supports a seamless transition to meet new regulations in three ways:

- 1** **Replace ingredients with *Flex* Low 1,4-Dioxane certified ingredients**
- 2** **Rebalance formulations with ingredients containing <10 ppm 1,4-Dioxane**
- 3** **Reformulate products using alternative ingredients not expected to contain 1,4-Dioxane**



Prepare now to meet new regulations with BASF's *Flex* portfolio – offering formulators flexibility and confidence with sustainable and safer choices.

BASF, a Technology Leader in Low 1,4-Dioxane Ingredients

BASF is an active participant in the dialogues driving the industry. We understand the complexity of the regulatory environment and continuously evaluate the impact of new and upcoming legislations on our portfolio. While our customers may feel overwhelmed by the challenge of meeting the requirements of new regulations, BASF can help bridge the gaps so that you and your team can successfully navigate the changing landscape.

Personal care products at risk of exceeding 1-2 ppm 1,4-Dioxane



Shampoo and body wash

Often includes Sodium Laureth Sulfate (SLS), a primary contributor to 1,4-Dioxane content in a formula.



Pomade and wax

Typically uses a high percentage of PEG-derivatized castor oils and ethoxylated alcohols as solubilizers.



Toothpaste

Contains high percentages of PEGs and poloxamers as binders or rheology modifiers, putting formulas at risk of going over 1 ppm.

Three Steps to Reduce 1,4-Dioxane

Shampoo and body wash

1. *Replace* primary surfactant system with Texapon® N 70 NA FlexGold or Texapon® N 70 NA FlexSilver
2. *Rebalance* using a combination of sulfate-free and non-ethoxylated surfactants
3. *Reformulate* with low or no 1,4-Dioxane rheology modifiers and solubilizers

Toothpaste

1. *Replace* PEGs and poloxamers with options from our Flex line of certified ingredients
2. *Rebalance* ratio of water content to rheology modifier
3. *Reformulate* using non-ethoxylated surfactants



Consider Flex ingredients if your products contain:

- Polyethylene glycols (PEGs)
- PEG-derivatized castor oils
- Ethoxylated alcohols
- Fatty alcohol mixed with ethoxylates
- Alkyl ether sulfates
- Glycol distearates
- Glycol distearate blends

BASF Gives You the Flexibility of Choice



- Flex Low 1,4-Dioxane certified ingredients
- BASF ingredients containing <10 ppm 1,4-Dioxane
- BASF ingredients without 1,4-Dioxane

Ask an Expert

To help support your business, we can offer an evaluation of your personal care formulations to assess the risk of exceeding 1,4-Dioxane limits.



Email us at beautycare-na@basf.com and let us know what problem you're solving. We can help!

Flex Low 1,4-Dioxane Certified Ingredients

We are launching the first of many Flex ingredients for cosmetic and personal care formulations including for oral care, rinse-off and leave-on personal care products. More ingredient options coming soon.

Product	Trade Name	INCI Name	1,4-Dioxane Limit	Function
30527936	Eumulgin® B2 Flex	Ceteareth-20	1 ppm	Emulsifier
30679875	Eumulgin® B 25 Flex (NA)	Ceteareth-25	1 ppm	Emulsifier
30527854	Eumulgin® O 10 Flex	Oleth-10	1 ppm	Emulsifier
30528395	Cetiol® HE Flex	PEG-7 Glyceryl Cocoate	1 ppm	Emollient
30527830	Emulgade® 1000 NI Flex	Cetearyl Alcohol (and) Ceteareth-20	1 ppm	Cream Base
30748053	Pluracare® F 127 NF PR Flex	Poloxamer 407	1 ppm	Solubilizer
30747851	Pluracare® E 400 NF PEG Flex	PEG-8	1 ppm	Solubilizer
30747820	Pluracare® E 600 NF PEG Flex	PEG-12	1 ppm	Solubilizer
30749351	Texapon® N 70 NA FlexGold	Sodium Laureth Sulfate	5 ppm	Surfactant
30749376	Texapon® N 70 NA FlexSilver	Sodium Laureth Sulfate	10 ppm	Surfactant

BASF Ingredients Containing <10 ppm 1,4-Dioxane

Product	Trade Name	INCI Name	Function
30193733	RetiSTAR®	Caprylic/Capric Triglyceride (and) Sodium Ascorbate (and) Tocopherol (and) Retinol	Bioactive
30580767	Vibracolor Moonlight Blue	Basic Blue 124	Colorant
30504119	Luviquat® Mono CP AT1	Hydroxyethyl Cetyldimonium Chloride	Conditioning Polymer
30528573	Dehyquat® C 4046	Cetearyl Alcohol (and) Dipalmitoylethyl Hydroxyethylmonium Methosulfate (and) Ceteareth-20	Consistency Wax
30530805	Sinnowax® AO	Cetearyl Alcohol (and) Ceteareth-33	Cream Base
30314721	AM200 PF	Water, Cyclopentasiloxane, Cyclohexasiloxane, PEG-8, Hydrogenated Lecithin, Hydrogenated Phosphatidylcholine	Emollient
30035134	Cremophor® RH 40	PEG-40 Hydrogenated Castor Oil	Emulsifier
30035135	Cremophor® RH 410	PEG-40 Hydrogenated Castor Oil	Emulsifier
30035153	Cremophor® RH 60	PEG-60 Hydrogenated Castor Oil	Emulsifier
30654276	Dehymuls® CO 7	PEG-7 Hydrogenated Castor Oil	Emulsifier
30532572	Dehymuls® LE	PEG-30 Dipolyhydroxystearate	Emulsifier
30654242	Emulgade® A 6	Ceteareth-6 (and) Stearyl Alcohol	Emulsifier
30527967	Emulgade® CBN	Cetearyl Isononanoate (and) Glyceryl Stearate (and) PEG-20 Glyceryl Stearate (and) Cetearyl Alcohol (and) Ceteareth-20 (and) Cetyl Palmitate	Emulsifier
30527888	Emulgade® F	Cetearyl Alcohol (and) PEG-40 Castor Oil (and) Sodium Cetearyl Sulfate	Emulsifier
30532387	Emulgade® I	Cetearyl Alcohol (and) Ceteareth-20 (and) PEG-40 Castor Oil	Emulsifier
30527844	Emulgade® SE-PF	Glyceryl Stearate (and) Ceteareth-20 (and) Ceteareth-12 (and) Cetearyl Alcohol (and) Cetyl Palmitate	Emulsifier
30527971	Eumulgin® B 3	Ceteareth-30	Emulsifier
30530689	Eumulgin® BA 10	Beheneth-10	Emulsifier
30530691	Eumulgin® BA 25	Beheneth-25	Emulsifier
30527858	Eumulgin® O 5	Oleth-5	Emulsifier
30654273	Eumulgin® RO 35	PEG-35 Castor Oil	Emulsifier
30527887	Eumulgin® S 2	Steareth-2	Emulsifier
30535960	Eumulgin® S 20	Steareth-20	Emulsifier
30530404	Eumulgin® S 21	Steareth-21	Emulsifier
30535746	Eumulgin® SA 40	PEG-40 Stearate	Emulsifier
30532193	Generol® 122 N E-10	PEG-10 Soy Sterol	Emulsifier
30531292	Generol® 122 N E-16	PEG-16 Soy Sterol	Emulsifier
30535742	Emulglade® SMART	Cetearyl Isononanoate (and) Glycerin (and) Ceteareth-20 (and) Cetearyl Alcohol (and) Glyceryl Stearate (and) Ceteareth-12	O/W Cream Base
30535708	Euperlan® PK 3000 AM	Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine	Pearlizer
30528534	Euperlan® PK 3000 OK	Glycol Distearate (and) Glycerin (and) Laureth-4 (and) Cocamidopropyl Betaine	Pearlizer
30530379	Euperlan® PK 4000	Glycol Distearate (and) Laureth-4 (and) Cocamidopropyl Betaine	Pearlizer
30534829	Euperlan® PK 710 BENZ	Glycol Distearate (and) Sodium Laureth Sulfate (and) Cocamide MEA	Pearlizer
30532116	Euperlan® PK 771	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10	Pearlizer
30528404	Euperlan® PK 771 BENZ	Sodium Laureth Sulfate (and) Glycol Distearate (and) Cocamide MEA (and) Laureth-10	Pearlizer
30530574	Euperlan® PK 810 IS	Glycol Distearate (and) Sodium Laureth Sulfate (and) Cocamide MEA (and) Laureth-10	Pearlizer
30532410	Euperlan® PK 810 US	Glycol Distearate (and) Sodium Laureth Sulfate (and) Cocamide MEA (and) Laureth-10	Pearlizer

BASF Ingredients Containing <10 ppm 1,4-Dioxane

Product	Trade Name	INCI Name	Function
30528621	Euperlan® PK 900 BENZ-W	PEG-3 Distearate (and) Sodium Laureth Sulfate	Pearlizer
30531483	Cosmedia® SPL	Sodium Polyacrylate (and) Hydrogenated Polydecene (and) PPG-5 Laureth-5	Rheology Modifier
30071072	Luvigel® EM	Caprylic/Capric Triglyceride, Sodium Acrylates Copolymer	Rheology Modifier
30612516	Luvigel® Star AT 3	Polyurethane-39	Rheology Modifier
30644542	Salcare® SC 80 UP	Steareth-10 Allyl Ether/Acrylates Copolymer	Rheology Modifier
30535837	Cosmedia® CTH (E)	Polyquaternium-37 (and) Propylene Glycol Dicaprylate/Dicaprate (and) PPG-1 Trideceth-6	Rheology Modifier, Conditioning Polymer
30483189	Salcare® SC 95	Polyquaternium-37 (and) Paraffinum Liquidum (and) PPG-1 Trideceth-6	Rheology Modifier, Conditioning Polymer
30483211	Salcare® SC 96	Polyquaternium-37 (and) Propylene Glycol Dicaprylate/Dicaprate (and) PPG-1 Trideceth-6	Rheology Modifier, Conditioning Polymer
30570708	Luviset® One	Acrylates/Methacrylamide Copolymer	Rheology Modifier, Setting Polymer
30035035	Luvimer® 100 P	Acrylates Copolymer	Setting Polymer
30570063	Eumulgin® CO 40	PEG-40 Hydrogenated Castor Oil	Solubilizer
30570652	Eumulgin® CO 455	PEG-40 Hydrogenated Castor Oil (and) Propylene Glycol (and) Aqua	Solubilizer
30570061	Eumulgin® CO 60	PEG-60 Hydrogenated Castor Oil	Solubilizer
30531606	Eumulgin® HPS	Coceth-7 (and) PPG-1-PEG-9 Lauryl Glycol Ether (and) PEG-40 Hydrogenated Castor Oil	Solubilizer
30527889	Eumulgin® L	PPG-1-PEG-9 Lauryl Glycol Ether	Solubilizer
30630836	Pluracare® 1307 PRILL	Poloxamer 407	Solubilizer
30164504	Pluracare® E 600 NF P.ETH.GLY.	PEG-12	Solubilizer
30164509	Pluracare® F 108 NF PRILL SURF.	Poloxamer 338	Solubilizer
30164508	Pluracare® L 1220	PEG/PPG-116/66 Copolymer	Solubilizer
30204750	Pluracare® L 4370	PEG/PPG-38/8 Copolymer	Solubilizer
30366560	Pluracare® L 64 G	Poloxamer 184	Speciality Surfactant
30527783	Emulgade® CM	Cetearyl Isononanoate (and) Ceteareth-20 (and) Cetearyl Alcohol (and) Glyceryl Stearate (and) Glycerin (and) Ceteareth-12 (and) Cetyl Palmitate	Specialty Compound
30648089	Plantasil® 4 V	PEG-40 Hydrogenated Castor Oil (and) PEG-7 Glyceryl Cocoate (and) PEG/PPG-120/10 Trimethylolpropane Trioleate (and) Glycerin	Specialty Compound
30671418	Jordapon® SCI	Sodium Cocoyl Isethionate	Specialty Surfactant
30677301	Jordapon® SCI Powder	Sodium Cocoyl Isethionate	Specialty Surfactant
30536877	Plantapon® AF	MIPA-Laureth Sulfate (and) Laureth-3 (and) Laureth-7 Citrate	Specialty Surfactant
30532521	Plantapon® LC 7	Laureth-7 Citrate	Specialty Surfactant
30528611	Arlypon® F	Laureth-2	Thickener
30535632	Arlypon® TT	PEG/PPG-120/10 Trimethylolpropane Trioleate (and) Laureth-2	Thickener
30528444	Dehydol® LS 2 Deo N	Laureth-2	Thickener
30528569	Dehydol® LS 3 Deo N	Laureth-3	Thickener
30528446	Dehydol® LS 4 Deo N	Laureth-4	Thickener
30530556	Eumulgin® EO 33	PEG-150 Distearate	Thickener

BASF Ingredients Without 1,4-Dioxane*

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For more information on bioactives, visit <https://www.carecreations.basf.com/product-formulations/tools/actives-product-finder>

Product	Trade Name	INCI Name	Function
30035139	Bisabolol RAC.	Bisabolol	Active
30314756	Caffeine Powder	Caffeine	Active
30035142	D-Panthenol 50P	Panthenol (and) Propylene Glycol	Active
30070776	D-Panthenol 75 W	Panthenol	Active
30703421	D-Panthenol Care	Panthenol	Active
30035141	D-Panthenol USP	Panthenol	Active
30175430	Dipropylene Glycol Care	Dipropylene Glycol	Active
30499501	DL-alpha-Tocopherol Care	Tocopherol	Active
30527726	Hydagen® CAT	Triethyl Citrate	Active
30080889	Monoethanolamine Care	Ethanolamine	Active
30035144	Retinol 10 S	Soybean (Glycine Soja) Oil (and) Retinol	Active
30171664	Retinol 10 SU	Soybean (Glycine Soja) Oil (and) Retinol	Active
30152422	Retinol 15 D	Caprylic / Capric Triglyceride (and) Retinol	Active
30054549	Retinol 50 C	Retinol (and) Polysorbate 20	Active
30035109	Edeta® B Powder	Tetrasodium EDTA	Chelate
30035110	Edeta® BD	Disodium EDTA	Chelate
30035108	Edeta® BS	EDTA	Chelate
30169942	Edeta® BX Powder	Tetrasodium EDTA	Chelate
30481010	Vibracolor® Citrus Yellow	Basic Yellow 87	Colorant
30482160	Vibracolor® Flame Orange	Basic Orange 31	Colorant
30481011	Vibracolor® Ruby Red	Basic Red 51	Colorant
30528653	Dehyquart® A	Cetrimonium Chloride (and) Water	Conditioning Agent
30528457	Dehyquart® A CA	Cetrimonium Chloride	Conditioning Agent
30537603	Dehyquart® AU-38 C	Dipalmitoylethyl Hydroxyethylmonium Methosulfate	Conditioning Agent
30532384	Dehyquart® F 30	Cetearyl Alcohol (and) Dipalmitoylethyl Hydroxyethylmonium Methosulfate	Conditioning Agent
30599580	Dehyquart® L 80 T	Dicocoyl ethyl Hydroxyethylmonium Methosulfate (and) Propylene Glycol	Conditioning Agent
30538100	Dehyquart® S18 NA	Stearamidopropyl Dimethylamine	Conditioning Agent
30536739	Dehyquart® CC 6	Polyquaternium-6	Conditioning Polymer
30537018	Dehyquart® CC7 BZ	Polyquaternium 7	Conditioning Polymer
30543528	Dehyquart® Guar HP	Guar Hydroxypropyltrimonium Chloride	Conditioning Polymer
30543530	Dehyquart® Guar N	Guar Hydroxypropyltrimonium Chloride	Conditioning Polymer
30543529	Dehyquart® Guar TC	Guar Hydroxypropyltrimonium Chloride	Conditioning Polymer
30035097	Luviquat® Excellence	Polyquaternium-16	Conditioning Polymer
30054528	Luviquat® Mono LS	Cocotrimonium Methosulfate	Conditioning Polymer
30492732	Luviquat® PQ 11 AT 1	Polyquaternium-11	Conditioning Polymer
30500962	Luviquat® UltraCare AT 1	Polyquaternium-44	Conditioning Polymer
30482592	Salcare® SC 60	Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer	Conditioning Polymer
30526472	Salcare® Super 7 AT 1	Polyquaternium-7	Conditioning Polymer
30527766	Cutina® FS 45	Stearic Acid (and) Palmitic Acid	Consistency Factor
30527812	Cutina® GMS V	Glyceryl Stearate	Consistency Factor
30527862	Cutina® HR Powder	Hydrogenated Castor Oil	Consistency Factor
30530336	Lanette® 14	Myristyl Alcohol	Consistency Factor
30527956	Lanette® 16	Cetyl Alcohol	Consistency Factor
30530432	Lanette® 18	Stearyl Alcohol	Consistency Factor
30530625	Lanette® 22	Behenyl Alcohol	Consistency Factor
30528249	Lanette® O	Cetearyl Alcohol	Consistency Factor
30527846	Cutina® CBS	Glyceryl Stearate (and) Cetearyl Alcohol (and) Cetyl Palmitate (and) Cocoglycerides	Consistency Wax
30600628	Dehyquart® F 75 T	Distearoylethyl Hydroxyethylmonium Methosulfate (and) Cetearyl Alcohol	Consistency Wax
30061790	1,2-Propylene Glycol Care	1,2-propanediol	Emollient

*Based on the starting materials and production process, these products are not expected to contain 1,4-Dioxane.

BASF Ingredients Without 1,4-Dioxane*

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For more information on bioactives, visit <https://www.carecreations.basf.com/product-formulations/tools/actives-product-finder>

Product	Trade Name	INCI Name	Function
30629379	AM300 PF	Water-dispersible silicone emulsion	Emollient
30492104	AM600 PF	Water (and) Dimethicone (and) Dimethicone Crosspolymer (and) Butylene Glycol (and) Hydrogenated Lecithin (and) Polyphosphorylcholine Glycol Acrylate	Emollient
30314728	AM900 PF	Water (and) Hydrogenated Polyisobutene (and) Butylene Glycol (and) Cetearyl Alcohol (and) Hydrogenated Lecithin (and) Polyphosphorylcholine Glycol Acrylate	Emollient
30527826	Cegesoft® C 24	2-Ethylhexyl palmitate	Emollient
30530121	Cegesoft® HF 52	Hydrogenated Vegetable oil	Emollient
30530123	Cegesoft® HF 62	Hydrogenated Vegetable oil	Emollient
30530129	Cegesoft® PFO	Passiflora Incarnata Oil	Emollient
30530119	Cegesoft® PS 6	Olus Oil	Emollient
30530126	Cegesoft® SBE	Butyrospermum Parkii Butter	Emollient
30530130	Cegesoft® SH	Shorea Stenoptera Seed Butter	Emollient
30530125	Cegesoft® VP	Olus Oil (and) Hydrogenated Vegetable Oil (and) Candelilla Cera	Emollient
30718341	Cegesoft®Peel	Glycol Distearate	Emollient
30527925	Cetiol® 868	2-Ethyl hexyl palmitate/-stearate	Emollient
30527770	Cetiol® A	Hexyl Laurate	Emollient
30527825	Cetiol® B	Dibutyl Adipate	Emollient
30538241	Cetiol® C 5	Coco-Caprylate	Emollient
30583738	Cetiol® C 5C	Coco-Caprylate/Caprates	Emollient
30527869	Cetiol® CC	Dicaprylyl Carbonate	Emollient
30536786	Cetiol® E	Ppg-15 Stearyl Ether	Emollient
30527949	Cetiol® J 600	Oleyl Erucate	Emollient
30527919	Cetiol® LC	Coco-Caprylate/Caprates	Emollient
30532172	Cetiol® LDO	Dicaprylyl Ether (and) Lauryl Alcohol	Emollient
30527882	Cetiol® MM	Myristyl Myristate	Emollient
30527880	Cetiol® OE	Dicaprylyl Ether	Emollient
30527765	Cetiol® PGL	Hexyldecanol (and) Hexyldecyl Laurate	Emollient
30538648	Cetiol® RLF	Caprylyl Caprylate/Caprates	Emollient
30527965	Cetiol® SB 45	Butyrospermum Parkii Butter	Emollient
30535766	Cetiol® Sensoft	Propylheptyl Caprylate	Emollient
30527789	Cetiol® SN	Cetearyl Isononanoate	Emollient
30597825	Cetiol® Ultimate	Undecane (and) Tridecane	Emollient
30537337	Cetiol® UT	Undecane (and) Tridecane	Emollient
30527917	Cetiol® V	Decyl Oleate	Emollient
30527819	Cutina® CP	Cetyl Palmitate	Emollient
30537467	Cutina® HVG	Hydrogenated Vegetable Glycerides	Emollient
30532605	Cutina® PES	Pentaerythrityl Distearate	Emollient
30527896	Eutanol® G	Octyldodecanol	Emollient
30527771	Eutanol® G 16	Hexyldecanol	Emollient
30527811	Eutanol® G 16 S	Hexyldecyl Stearate	Emollient
30527898	Guerbitol® 20	Octyldodecanol	Emollient
30527903	HD-Eutanol V	Oleyl Alcohol	Emollient
30527973	Isopropyl Myristate	IsopropylMyristate	Emollient
30528720	Isopropyl Palmitate	IsopropylPalmitate	Emollient
30527905	Isopropyl Stearate	Isopropyl Stearate	Emollient
30528377	Lamesoft® PO 65	Coco-Glucoside (and) Glyceryl Oleate	Emollient
30528618	Lamesoft® TM Benz	Glycol Distearate (and) Coco Glucoside (and) Glyceryl Oleate (and) Glyceryl Stearate	Emollient
30533044	Lantrol® 1674 Low Odor Lanolin Oil	Lanolin oil	Emollient
30527768	Monomuls® 90-L12	Glyceryl Laurate	Emollient

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30527793	Myritol® 312	Caprylic/Capric Triglyceride	Emollient
30527906	Myritol® 318	Caprylic/Capric Triglyceride	Emollient
30527787	Myritol® 331	Cocoglycerides	Emollient
30565451	Myritol® PGDC	Propylene Glycol Dicaprylate/ Dicaprate	Emollient
30314983	SanSurf® Cocoa Butter Plus	Cocoa Butter in micelle dispersion	Emollient
30346418	SanSurf® Cocoa Butter Plus PF	Water (and) Theobroma Cacao (Cocoa) Seed Butter (and) Butylene Glycol (and) Hydrogenated Lecithin (and) Cetearyl Alcohol	Emollient
30314988	SanSurf® Shea Butter PF	Water (and) Butyrospermum Parkii (Shea Butter) Extrakt (and) Cyclopentasiloxane (and) Phospholipids	Emollient
30537849	Cosmedia® Triple C	Polyquaternium-37 (and) Dicaprylyl Carbonate (and) Lauryl Glucoside	Emollient, Rheology Modifier, Conditioning Polymer
30035150	Crempor® GS 32	Polyglyceryl-3 Distearate	Emulsifier
30527838	Dehymuls® E	Dicocoyl Pentaerythrityl Distearyl Citrate (and) Sorbitan Sesquioleate (and) Cera Alba (and) Aluminum Stearates	Emulsifier
30527843	Dehymuls® K	Petrolatum (and) Decyl Oleate (and) Dicocoyl Pentaerythrityl Distearyl Citrate (and) Sorbitane Sesquioleate (and) Cera Microcristallina (Microcristalline Wax) (and) Paraffinum Liquidum (Mineral Oil) (and) Cera Alba (Beeswax) (and) Aluminum Stearates	Emulsifier
30527928	Dehymuls® PGPH	Polyglyceryl-2 Dipolyhydroxystearate	Emulsifier
30533295	Emulgade Sucro	Sucrose Polystearate (and) Hydrogenated Polyisobutene	Emulsifier
30534308	Emulgade® 165	Glyceryl Stearate (and) PEG-100 Stearate	Emulsifier
30535612	Emulgade® CPE	Olus Oil (and) Glycerin (and) Lauryl Glucoside (and) Polyglyceryl-2-Dipolyhydroxystearate (and) Glyceryl Oleate (and) Dicaprylyl Carbonate	Emulsifier
30527866	Emulgade® PL 68 / 50	Cetyl stearyl polyglucoside	Emulsifier
30533295	Emulgade® Sucro	SucRose Polystearate (and) Hydrogenated Polyisobutene	Emulsifier
30660124	Eumulgin® B 1	Ceteareth-12	Emulsifier
30532278	Eumulgin® SG	Sodium Stearoyl Glutamate	Emulsifier
30527788	Eumulgin® VL 75	Lauryl Glucoside (and) Polyglyceryl-2 Dipolyhydroxystearate (and) Glycerin	Emulsifier
30725926	Generol® 122 N PRL-C	Glycine Soja (Soybean) Sterols	Emulsifier
30530594	Generol® R E5	PEG-5 Rapeseed Sterol	Emulsifier
30527834	Lameform® TGI	Polyglyceryl-3 Diisostearate	Emulsifier
30530202	Lanette® E Granules	Sodium Cetearyl Sulfate	Emulsifier
30527976	Monomuls® 90-O 18	Glyceryl Oleate	Emulsifier
30613432	Emulgade® Sucro plus	SucRose Polystearate (and) Cetyl Palmitate	Emulsifier, Protein Product
30718341	Cegesoft® Peel	Glycol Distearate	Exfoliant
30061790	1,2 propylene glycol care	Propylene Glycol	Humectant
30476426	CIBAFast H LIQUID	Sodium Benzotriazolyl Butylphenol Sulfonate (and) Buteth-3 (and) Tributyl Citrate	Light stabilizer
30035126	Neutrol® TE	Tetrahydroxypropyl Ethylenediamine	Neutralizer
30530498	Cutina® STE	Distearyl Ether	Opacifier
30533718	Euperlan® OP White	Glycol Distearate (and) Sodium Laureth Sulfate (and) Cocamidopropyl Betaine (and) Glyceryl Oleate	Opacifier
30528344	Cutina® AGS	Glycol Distearate	Pearlizer
30661416	Cutina® AGS-CP	Glycol Distearate	Pearlizer
30528370	Cutina® EGMS	Glycol Stearate	Pearlizer
30535439	Euperlan® PCO	Styrene/Acrylates Copolymer (and) Coco-Glucoside	Pearlizer
30528410	Euperlan® PK 1200	Coco-Glucoside (and) Glycol Distearate (and) Glycerin	Pearlizer
30531050	Elestab® CPN	Chlorphenesin	Preservative
30531838	Elestab® CPN Ultrapure	Chlorphenesin	Preservative
30314842	Germazide™ M	Butylene Glycol (and) Glycerin (and) Chlorphenesin (and) Methylparaben	Preservative
30314847	Germazide™ MPB	Phenoxyethanol (and) Chlorphenesin (and) Glycerin (and) Methylparaben (and) Benzoic Acid	Preservative
30314846	Germazide™ PSG	Phenoxyethanol (and) Chlorphenesin (and) Glycerin (and) Sorbic Acid	Preservative

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BASF Ingredients Without 1,4-Dioxane*

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Product	Trade Name	INCI Name	Function
30537437	Gluadin® Almond Benz	Hydrolyzed Sweet Almond Protein	Protein Product
30635798	Gluadin® Kera-P LM	Hydrolyzed Vegetable Protein	Protein Product
30537278	Gluadin® R Benz	Hydrolyzed Rice Protein	Protein Product
30538537	Gluadin® Soy Benz	Hydrolyzed Soy Protein	Protein Product
30537441	Gluadin® W 40 BP	Hydrolyzed Wheat Protein	Protein Product
30537146	Gluadin® WLM Benz	Hydrolyzed Wheat Protein	Protein Product
30527725	Gluadin® WP	Hydrolyzed Wheat Protein	Protein Product
30537438	Gluadin® WQ PP	Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein	Protein Product
30537440	Gluadin® WQT P	Hydroxypropyltrimonium Hydrolyzed Wheat Protein	Protein Product
30593484	Lamepon® S UP	Potassium Cocoyl Hydrolyzed Collagen	Protein Product
30567018	Nutrilan® I 50 BP	Hydrolyzed Collagen	Protein Product
30654108	Nutrilan® Keratin LM	Hydrolyzed Keratin	Protein Product
30537919	Nutrilan® Keratin W PP	Hydrolyzed Keratin	Protein Product
30631900	Nutrilan® Milk EP	Hydrolyzed Milk Protein	Protein Product
30740170	Cosmedia® A 91	Sodium Acrylates Copolymer (and) Mineral Oil (and) PPG-1 Trideceth-6	Rheology Modifier
30620187	Cosmedia® Ace	Sodium Polyacrylate (and) Dicaprylyl Carbonate (and) Polyglyceryl-3 Caprate	Rheology Modifier
30744659	Cosmedia® C 92	Polyquaternium-32 (and) Paraffinum Liquidum (and) PPG-1 Trideceth-6	Rheology Modifier
30531817	Cosmedia® DC	Hydrogenated Dimer Dilinoleyl/ Dimethylcarbonate Copolymer	Rheology Modifier
30535468	Cosmedia® Gel CC	Dicapryl Carbonate (and) Stearalkonium Hectorite (and) Propylene Carbonate	Rheology Modifier
30531250	Cosmedia® SP	Sodium Polyacrylate	Rheology Modifier
30537849	Cosmedia® Triple C	Polyquaternium-37 (and) Dicaprylyl Carbonate (and) Lauryl Glucoside	Rheology Modifier
30535838	Cosmedia® Ultragel 300	Polyquaternium-37	Rheology Modifier
30531446	Hispagel® 200	Glycerin (and) Glyceryl Polyacrylate	Rheology Modifier
30536839	Hispagel® 200 NS	Glycerin (and) Glyceryl Polyacrylate	Rheology Modifier
30531645	Hispagel® Oil LV	Glycerin (and) Glyceryl Polyacrylate	Rheology Modifier
30527795	Hydagen® 558 P	Algin	Rheology Modifier
30592687	Luvigel® Fit UP	Acrylates/C10-C30 Alkyl Methacrylate Copolymer	Rheology Modifier
30537848	Rheocare® C Plus	Carbomer	Rheology Modifier
30533542	Rheocare® HSP-1180	Polyacrylamidomethylpropane Sulfonic Acid	Rheology Modifier
30536738	Rheocare® TTA	Acrylates Copolymer	Rheology Modifier
30654984	Rheocare® XGN	Xanthan Gum	Rheology Modifier
30570746	Salcare® SC 81 UP	Acrylates Copolymer	Rheology Modifier
30482059	Salcare® SC 91	Sodium Acrylates Copolymer (and) Mineral Oil (and) PPG-1 Trideceth-6	Rheology Modifier
30654984	Tinovis® GTC UP	Acrylates/Beheneth-25 Metahcrylate Copolymer	Rheology Modifier
30535838	Cosmedia® Ultragel 300	Polyquaternium-37	Rheology Modifier, Conditioning Polymer
30533542	Rheocare® HSP 1180	Polyacrylamidomethylpropane Sulfonic Acid	Rheology Modifier, Conditioning Polymer
30481567	Salcare® SC 92	Polyquaternium-32 (and) Paraffinum Liquidum (and) PPG-1 Trideceth-6	Rheology Modifier, Conditioning Polymer
30535468	Cosmedia® Gel CC	Dicaprylyl Carbonate (and) Stearalkonium Hectorite (and) Propylene Carbonate	Rheology Modifier, Water Resistance Polymer
30527873	Cutina® GMS-SE	Glyceryl Stearate SE	Self-Emulsifying Cream Base
30527863	Lanette® N	Cetearyl Alcohol (and) Sodium Cetearyl Sulfate	Self-Emulsifying Cream Base
30527913	Lanette® SX	Cetearyl Alcohol (and) Sodium Lauryl Sulfate (and) Sodium Cetearyl Sulfate	Self-Emulsifying Cream Base
30527807	Lanette® W	Cetearyl Alcohol (and) Sodium Lauryl Sulfate	Self-Emulsifying Cream Base
30066798	Luviflex® Soft	Acrylates Copolymer	Setting Polymer
30500238	Luviquat® Supreme AT 1	Polyquaternium-68	Setting Polymer
30035034	Luviset® CA 66	VA/Crotonates Copolymer	Setting Polymer
30060969	Luviset® CAN	VA/Crotonates/Vinyl Neodecanoate Copolymer	Setting Polymer

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BASF Ingredients Without 1,4-Dioxane*

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Product	Trade Name	INCI Name	Function
30626433	Luviset® Clear AT 3	VP/Methacrylamide/Vinyl Imidazole Copolymer	Setting Polymer
30282077	Luviset® Clear E	VP/Methacrylamide/Vinyl Imidazole Copolymer	Setting Polymer
30063603	Luviset® P.U.R.	Polyurethane-1	Setting Polymer
30035084	Luviskol® K 17 Powder	Polyvinylpyrrolidone (PVP)	Setting Polymer
30035086	Luviskol® K 30 Powder	Polyvinylpyrrolidone (PVP)	Setting Polymer
30564303	Luviskol® K 30 Super P	PVP	Setting Polymer
30566395	Luviskol® K 30 Super Solution	PVP	Setting Polymer
30634741	Luviskol® K 90 AT 1 Sol. 20%	PVP	Setting Polymer
30035087	Luviskol® K 90 Powder	Polyvinylpyrrolidone (PVP)	Setting Polymer
30054531	Luviskol® Plus	Polyvinylcaprolactam	Setting Polymer
30035021	Luviskol® VA 37 E	VP/VA Copolymer	Setting Polymer
30035019	Luviskol® VA 64 Powder	VP/VA Copolymer	Setting Polymer
30035030	Luviskol® VA 64 W	VP/VA Copolymer	Setting Polymer
30035024	Luviskol® VA 73 E	VP/VA Copolymer	Setting Polymer
30035031	Luviskol® VA 73 W	VP/VA Copolymer	Setting Polymer
30674105	Luvitol® Lite EM	Hydrogenated Polyisobutene	Setting Polymer
30035032	Ultrahold® 8	Acrylates/t-Butylacrylamide Copolymer	Setting Polymer
30602966	Ultrahold® Power	Acrylates/t-Butylacrylamide Copolymer	Setting Polymer
30035033	Ultrahold® Strong	Acrylates/t-Butylacrylamide Copolymer	Setting Polymer
30035095	Luviquat® FC 370	Polyquaternium-16	Setting Polymer, Conditioning Polymer
30035096	Luviquat® FC 550	Polyquaternium-16	Setting Polymer, Conditioning Polymer
30034753	Luviquat® HM 552	Polyquaternium-16	Setting Polymer, Conditioning Polymer
30620542	Luviquat® Hold AT 3	Polyquaternium-46	Setting Polymer, Conditioning Polymer
30537327	Plantasil® Micro	Dicaprylyl Ether (and) Decyl Glucoside (and) Glyceryl Oleate	Specialty Compound
30528338	Dehyton® AB 30	Coco betaine	Specialty Surfactant
30528624	Dehyton® PK 45	Cocamidopropyl Betaine	Specialty Surfactant
30530216	Plantacare® 1200 UP	Lauryl Glucoside	Specialty Surfactant
30528526	Plantacare® 2000 UP	Decyl Glucoside	Specialty Surfactant
30530208	Plantacare® 810 UP	Caprylyl/Capryl Glucoside	Specialty Surfactant
30528606	Plantacare® 818 UP	Coco-Glucoside	Specialty Surfactant
30530364	Plantapon® ACG 35	(Di)Sodium Cocoyl Glutamate	Specialty Surfactant
30533402	Plantapon® ACG 50	(Di)Sodium Cocoyl Glutamate	Specialty Surfactant
30536973	Plantapon® ACG HC	(Di)Sodium Cocoyl Glutamate	Specialty Surfactant
30536972	Plantapon® ACG-LC	(Di)Sodium Cocoyl Glutamate	Specialty Surfactant
30531383	Plantapon® LGC Sorb	Sodium Lauryl Glucose Carboxylate (and) Lauryl Glucoside	Specialty Surfactant
30628851	Plantapon® LGC Sorb NA	Sodium Lauryl Glucose Carboxylate (and) Lauryl Glucoside	Specialty Surfactant
30538619	Plantapon® PSC	Coco-Glucoside (and) Disodium Lauryl Sulfosuccinate (and) Glycerin	Specialty Surfactant
30627694	Plantapon® PSC Benz	Coco-Glucoside (and) Disodium Lauryl Sulfosuccinate (and) Glycerin	Specialty Surfactant
30535493	Plantapon® SF	Sodium Cocoamphoacetate (and) Glycerin (and) Lauryl Glucoside (and) Sodium Cocoyl Glutamate (and) Sodium Lauryl Glucose Carboxylate	Specialty Surfactant
30657358	Plantapon® SF NA	Sodium Cocoamphoacetate (and) Glycerin (and) Lauryl Glucoside (and) Sodium Cocoyl Glutamate (and) Sodium Lauryl Glucose Carboxylate	Specialty Surfactant
30528609	Plantapon® SUS	Disodium Lauryl Sulfosuccinate	Specialty Surfactant
30562120	Plantapon® TF	Decyl Glucoside (and) Polyglyceryl-10 Caprylate/Caprinate (and) Coc-glucoside (and) Glyceryl Oleate	Specialty Surfactant

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BASF Ingredients Without 1,4-Dioxane*

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Product	Trade Name	INCI Name	Function
30528617	Plantaren® 1200 N	Lauryl Glucoside	Specialty Surfactant
30531456	Plantaren® 1200 N UP	Lauryl Glucoside	Specialty Surfactant
30627871	Plantaren® 1300 N	Lauryl Glucoside	Specialty Surfactant
30533445	Plantaren® 2000 N UP	Decyl Glucoside	Specialty Surfactant
30628560	Plantaren® 818 UP	Coco-Glucoside	Specialty Surfactant
30527925	Cegesoft® 868	Ethylhexyl Stearate	Thickener
30527826	Cegesoft® C 24	Ethylhexyl Palmitate	Thickener
30478125	Tinosorb® A2B	Tris-Biphenyl Triazine [nano] (and) Aqua (and) Decyl Glucoside (and) Disodium Phosphate (and) Butylene Glycol (and) Xanthan Gum	UV Filter
30482916	Tinosorb® M	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (nano) (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum	UV Filter
30481068	Tinosorb® S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	UV Filter
30221690	Uvinul® A Plus B	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	UV Filter
30338477	Uvinul® A Plus Granular	Diethylamino Hydroxybenzoyl Hexyl Benzoate	UV Filter
30055079	Uvinul® MC 80	Ethylhexyl Methoxycinnamate	UV Filter
30055082	Uvinul® N 539 T	Octocrylene	UV Filter
30035119	Uvinul® T 150	Ethylhexyl Triazone	UV Filter
30083071	Z-COTE®	Zinc Oxide	UV Filter
30083072	Z-COTE® HP1	Zinc Oxide (and) Triethoxycaprylylsilane	UV Filter
30736026	Z-COTE® HP1 X	Zinc Oxide (and) Triethoxycaprylylsilane	UV Filter
30563203	Z-COTE® LSA	Zinc Oxide (and) Triethoxycaprylylsilane	UV Filter
30616852	Z-COTE® LSA UC	Zinc Oxide	UV Filter
30717726	Z-COTE® Simple	Zinc Oxide (and) Caprylic / Capric Triglyceride (and) Polyhydroxystearic Acid (and) Triethoxycaprylylsilane	UV Filter
30476426	Cibafast® H Liquid	Sodium Benzotriazolyl Butylphenol Sulfonate (and) Buteth-3 (and) Tributyl Citrate	UV Stabilizer
30483239	Tinogard® AS	Bumetrizole	UV Stabilizer
30517297	Tinogard® DA	Dilauryl Thiodipropionate	UV Stabilizer
30482021	Tinogard® HS	Sodium Benzotriazolyl Butylphenol Sulfonate	UV Stabilizer
30482052	Tinogard® Q	Tris (Tetramethylhydroxypiperidinol) Citrate (and) Water (and) Ethanol	UV Stabilizer
30483522	Tinogard® TL	Benzotriazolyl Dodecyl p-Cresol	UV Stabilizer
30484864	Tinogard® TS	Octadecyl Di-t-Butyl-4-Hydroxyhydrocinnamate	UV Stabilizer
30483790	Tinogard® TT	Pentaerythrityl Tetra-Di-t-Butyl Hydroxyhydrocinnamate	UV Stabilizer
30475172	Tinogard® TT DD	Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	UV Stabilizer
30534042	Controx® KS C	Tocopherol (and) Hydrogenated Palm Glycerides Citrate	Vitamin
30533821	Copherol® 1250 C	Tocopheryl Acetate	Vitamin
30533822	Copherol® F 1300 C	Tocopherol	Vitamin
30533824	Covi-Ox® T 50 C	Tocopherol	Vitamin
30533825	Covi-Ox® T 70 C	Tocopherol	Vitamin
30534311	Covi-Ox® T 90 C	Tocopherol	Vitamin
30549006	Covi-Ox® T 90 EU C	Tocopherol	Vitamin
30499497	Vitamin A-Palmitate (1.0 BHT)	Retinyl Palmitate (and) Sunflower (Helianthus Annuus) Seed Oil	Vitamin
30499498	Vitamin A-Palmitate (1.0 TOC.)	Retinyl Palmitate (and) Helianthus Annuus Seed Oil	Vitamin
30499495	Vitamin A-Palmitate (1.7 TOC.)	Retinyl Palmitate	Vitamin
30499500	Vitamin E-Acetate Care	Tocopheryl Acetate	Vitamin
30222192	Sodium Ascorbyl Phosphate	Sodium Ascorbyl Phosphate	Vitamin Anti-Oxidant
30531817	Cosmedia® DC	Hydrogenated Dimer Dilinoleyl Dimethylcarbonate Copolymer	Water Resistance Polymer

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Identify Ingredients That Meet Regulations with the Care Creations™ 1,4-Dioxane Calculator Tool



The BASF Care Creations™ 1,4-Dioxane calculator enables formulators to input formulations online and receive a notification if the formulation complies with 1,4-Dioxane regulatory limits. Whether you are searching BASF ingredients or want to enter your own, the calculator displays options to help you create formulations with less than 1 ppm of 1,4-Dioxane, makes alternative recommendations, and enables you to submit sample requests for BASF products once you've completed entering your proposed formulation.

Go to: carecreations.basf.us/dioxane-calculator

The screenshot shows the web interface for the 1,4-Dioxane Calculator. At the top left is the BASF logo with the tagline "We create chemistry" and the "Care Creations" logo. A navigation menu includes Home, Trends, Benefits, Products, Formulations, Magazine, Tools, and Contact, along with a Login button and a search icon. Below the navigation is a large image of laboratory glassware containing herbs and flowers. The main heading is "1,4-Dioxane Calculator" followed by "Welcome to the Care Creations™ 1,4-Dioxane Calculator". The text below explains the tool's purpose: "Pick and choose BASF ingredients or enter your own – and instantly see if the formulation you are creating is less than 1ppm. The calculator also provides recommendations to suit your needs! You can submit sample requests once completed and save your formulation." Below this is the instruction "Dig in and happy formulating!". To the right, there is a prompt "Please choose your formulation type below and click next to get started" with a "Select type" dropdown menu and a "Next" button. At the bottom right, there is a blue padlock icon and the text "Access Locked". At the bottom left, there is a call to action: "Join us to keep reading".



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Labeling

Details about the classification and labeling of our products and further advice on safe handling are contained in the current safety data sheets.

For more information

Contact your BASF account manager, or email us at beautycare-na@basf.com or visit our website: carecreations.basf.us



About BASF's Care Chemicals division

The BASF division Care Chemicals offers a broad range of ingredients for personal care, home care, industrial & institutional cleaning, and technical applications. We are the global leading supplier for the cosmetics industry as well as the detergents and cleaners industry and support our customers with innovative and sustainable products, solutions and concepts. The division's high-performance product portfolio includes surfactants, emulsifiers, polymers, emollients, chelating agents, cosmetic active ingredients and UV filters. We have production and development sites in all regions and are expanding our presence in emerging markets.

Further information is available on the internet at www.carecreations.basf.us

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