

CREATING THE RIGHT BLEND, EVERY TIME.

With over 30 years experience, Sharon Labs has been effectively providing preservative solutions for the global personal care market. As one of the world's largest producers of preservation solutions, we have the access and expertise to provide you with custom blended solutions to meet your exacting needs. Our team of specialists, experts in global regulatory requirements, can assist you in determining the system that best suits your product, in addition to recommending the right process and raw material controls. Sharon Labs' state-of-the-art analytical and microbiological technology along with ISO certification and environmentally friendly production facilities, ensure our product safety and quality as well as yours.



BROAD SPECTRUM PRESERVATIVES SYSTEMS

Sharomix DMP & DMP II	A liquid blend of Diazolidinyl Urea, Methylparaben, Propylparaben in Propylene Glycol
Sharomix 938	A liquid blend of Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Dehydroacetic Acid in Phenoxyethanol
Sharonox 2000	A liquid blend of Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben, Phenoxyethanol, Polyaminopropyl Biguanide in Propylene Glycol
Sharomix 300	A liquid blend of Methylparaben, Propylparaben, Bronopol in Phenoxyethanol
Sharomix MTI	A liquid blend of Methylisothiazolinone, Iodopropynyl Butylcarbamate in Propylene Glycol
Sharomix MCI	A liquid blend of Methylchloroisothiazolinone, Methylisothiazolinone in water
Phenochem	A liquid blend of Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben in Phenoxyethanol
Sharomix 824	A liquid blend of Methylparaben, Ethylparaben, Propylparaben in Phenoxyethanol

PRESERVATIVES FOR FOCUSED PROTECTION

Bronopol	2-Bromo-2-Nitropropane-1,3-diol
Polyaminopropyl Biguanide (PHMB)	Polyaminopropyl Biguanide in water
DMDMH	DMDM Hydantoin in water
Sharomix MT	Methylisothiazolinone in water
Phenoxyethanol	Phenoxyethanol
Sharomix 431	A dry blend of Methylparaben, Ethylparaben, Propylparaben, Butylparaben and Isobutyl paraben
Sharomix 331	A dry blend of Methylparaben, Ethylparaben and Propylparaben
Parabens	Methylparaben ; Ethylparaben ; Propylparaben ; Butylparaben
Parabens salts	Sodium Methylparaben ; Sodium Ethylparaben ; Sodium Propylparaben

SPECIAL BLENDS: SPECIFIC NEEDS, MILD, INNOVATIVE BLENDS

Sharomix 702	A liquid blend of Dehydroacetic Acid, Benzoic Acid in Phenoxyethanol
Sharomix 705	A liquid blend of Benzoic Acid, Sorbic Acid, Dehydroacetic Acid in Benzyl alcohol
Sharomix 706	A liquid blend of Dehydroacetic Acid, Benzoic Acid in Benzyl alcohol
Sharomix 707	A liquid blend of Benzoic Acid, Sorbic Acid, Dehydroacetic Acid, Caprylyl Glycol in Benzyl alcohol
Sharomix ME	A liquid blend of Methylparaben, Ethylparaben in Phenoxyethanol
Sharomix ME 16	A liquid blend of Methylparaben, Ethylparaben in Propylene Glycol
Sharomix 410	A liquid blend of Methylparaben, Ethylparaben in Benzyl alcohol
Sharomix 221	A dry blend of Methylparaben and Ethylparaben

BROAD SPECTRUM PRESERVATIVE BLENDS



Sharon Labs broad-spectrum preservative blends have been specifically designed to protect cosmetic and personal care products against all types of microorganisms. For example, Sharomix DMP provides protection not only against bacteria, but yeast and mold, too.

Also, our broad-spectrum solutions are formulated to provide maximum protection while using minimum concentration levels. By using components that have a synergistic effect, the overall concentration of specific preservatives can be minimized.

Formulated as easy-to-handle liquids, these multi-purpose blends save you the time-consuming task of weighing individual components. And with Sharon Lab's extensive experience and expertise, if we haven't yet created the blend to match your needs, we are able to.

SHARON LABS PRODUCT	INCI NAME
Sharomix DMP & DMP II	Diazolidinyl Urea, Methylparaben, Propylparaben, Propylene Glycol
Sharomix 938	Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Phenoxyethanol, Dehydroacetic Acid
Sharonox 2000	Polyaminopropyl Biguanide, Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben, Phenoxyethanol, Propylene Glycol
Sharomix 300	Methylparaben, Propylparaben, 2-Bromo-2-Nitropropane-1,3-diol, Phenoxyethanol
Sharomix MTI	Methylisothiazolinone, Iodopropynyl Butylcarbamate, Propylene Glycol
Sharomix MCI	Methylchloroisothiazolinone, Methylisothiazolinone
Phenochem	Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben, Phenoxyethanol
Sharomix 824	Methylparaben, Ethylparaben, Propylparaben, Phenoxyethanol

SHAROMIX DMP & DMP II

Broad Spectrum Preservative Blends



Sharomix DMP & DMP II are broad-spectrum liquid solutions that protect against Gram negative and Gram positive Bacteria, yeasts and molds. By combining Diazolidinyl urea with Parabens, Sharomix DMP gains a multi-purpose antimicrobial functionality, making it an ideal preservation system for shampoos, hair conditioners and emulsion products.

Stable and effective over a wide pH range, Sharomix DMP's easy-to-handle liquid form reduces the inconvenience associated with the handling of powders. Compatible with most cosmetic formulations, Sharomix DMP is soluble up to 1% in aqueous solutions.

For best results, we recommend that Sharomix DMP be added to formulations at temperatures below 50°C. This means that when used in an emulsion, it should be incorporated after the cooling stage. Furthermore, if the oily phase content is high, we recommend using Sharomix DMP II.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX DMP & DMP II

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	1500
Escherichia coli	Bacteria Gram -	1250
Pseudomonas aeruginosa	Bacteria Gram -	1875
Bacillus cereus	Bacteria Gram +	1250
Staphylococcus epidermidis	Bacteria Gram +	1500
Aspergillus niger	Mold	3500
Candida albicans	Yeast	3500

INCI

Diazolidinyl Urea, Methylparaben, Propylparaben, Propylene Glycol

Appearance

Transparent, viscous liquid

Solubility

Soluble at recommended usage concentrations within aqueous solutions and emulsions (o/w, w/o)

Halogen free

SHAROMIX 938

Broad Spectrum Preservative Blends



Sharomix 938 is a broad-spectrum liquid blend containing four different Parabens, along with Dehydroacetic acid (DHA), which are dissolved in Phenoxyethanol. The Parabens—Methyl, Ethyl, Propyl and Butyl—are highly effective against fungi and bacteria, while the Phenoxyethanol adds synergy for maximum efficiency. Adding the DHA component into the blend gives it extra protection against yeasts and molds.

Sharomix 938 is a good solution for formulators seeking a preservation system free from both halogenated organic compounds and formaldehyde.

The activity of Sharomix 938, like the activity of any other preservation system that contains organic acids, is pH-dependent. As the antimicrobial activity is obtained mainly by the non-dissociated acid form, personal care products that are slightly acidic will benefit the most from Sharomix 938.

Sharomix 938 has limited water solubility. For this reason, it should be incorporated to the oily phase, prior to its combination with the water phase. When using Sharomix 938 in an aqueous formulation, it should be added after the surfactants have been introduced.

The recommended level of use for Sharomix 938 is up to 1.35%

INCI

Methylparaben, Ethylparaben,
Propylparaben, Butylparaben,
Phenoxyethanol, Dehydroacetic Acid

Appearance

Transparent liquid

Formaldehyde free

Halogen free

SHARONOX 2000

Broad Spectrum Preservative Blends



Sharonox 2000 is another ideal solution for personal care products requiring a broad-spectrum, formaldehyde-free and halogenated-organic-compounds-free preservation system. Sharonox 2000 is a liquid blend consisting of polyaminopropyl biguanide and Phenochem, together with propylene glycol.

Polyaminopropyl biguanide is active against Gram negative Bacteria while Phenochem is an efficient preservative against Gram positive Bacteria, yeasts and molds. Sharonox 2000 hence gives coverage against all microbial spectra.

Due to its liquid state, Sharonox 2000 is very easy to handle. The product is also heat stable up to 80°C. For best results, we suggest that its inclusion be divided between the water and oily phases.

Sharonox 2000 retains its activity over a wide pH range, protecting cosmetic formulations with pH ranging from 3.5 to 8.5. It is non-volatile, with stability up to 80°C. Sharonox 2000 is compatible with quaternary ammonium compounds, nonionic surfactants and amphoteric such as Cocamidopropyl betaine. It is not compatible with anionic formulations.

INCI

Polyaminopropyl Biguanide,
Methylparaben, Ethylparaben,
Propylparaben, Butylparaben,
Isobutylparaben, Phenoxyethanol,
Propylene Glycol

Appearance

Transparent liquid

Formaldehyde free

Halogen free

SHAROMIX 300

Broad Spectrum Preservative Blends



The combination of Parabens and Bronopol in Phenoxyethanol creates a potent preservation system with superior coverage of all microbial spectra. This blend is an excellent preservative for wet wipe applications and for all leave-on and rinse-off products.

Sharomix 300 retains its activity in the presence of proteins and is compatible with a variety of surfactants. As with any formulation containing Bronopol, the formation of nitrosamines should be avoided.

Sharomix 300 will remain effective in pH 4.5 to 8.5. Exposure to elevated temperatures should be avoided. If the product is used for the preservation of an emulsion, then it should be added after the cooling stage. Sharomix 300 is soluble in water up to 0.5%. It is recommended to pre-dissolve it in propylene glycol when used in water-based products.

Typical use concentrations are in the range of 0.3% to 0.7%.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 300

Microorganism	Type	MIC (ppm %)
Burkholderia cepacia	Bacteria Gram -	1500
Pseudomonas aeruginosa	Bacteria Gram -	1000
Bacillus cereus	Bacteria Gram +	1250
Staphylococcus aureus	Bacteria Gram +	1500
Aspergillus niger	Mold	1750
Candida albicans	Yeast	2000

INCI

Methylparaben, Propylparaben,
Bronopol, Phenoxyethanol

Appearance

Transparent liquid

Solubility

Soluble in water,
miscible in propylene glycol,
ethanol and acetone

SHAROMIX MTI

Broad Spectrum Preservative Blends



Sharomix MTI is a liquid blend containing two preservatives, producing a broad-spectrum effect. Methylisothiazolinone gives this blend the ability to control Gram positive and Gram negative Bacteria, while Iodopropynyl butylcarbamate confers excellent fungicidal activity for the additional control of molds and yeasts. Effective application areas for Sharomix MTI include: shampoo, styling gel, bath gel, hair conditioner, liquid soap, and also hand, foot and face creams.

Typical use levels of Sharomix MTI are in the range of 0.05% to 0.2%. Sharomix MTI is compatible with anionic, cationic and nonionic surfactants and is not affected by the presence of proteins or protein hydrolysates within the formulation.

To ensure the best protection of the formulation, it is recommended to add Sharomix MTI at the earliest stage possible during the manufacturing process. Temperatures higher than 40°C should be avoided when working with Sharomix MTI.

An important feature of Sharomix MTI is its stability over a wide pH range. Its ability to retain activity at pH values as high as 8.5 makes it an effective alternative to preservatives that are based on organic acids.

INCI

Methylisothiazolinone, Iodopropynyl Butylcarbamate, Propylene glycol

Appearance

Transparent to pale yellow liquid

Solubility

Miscible with water, glycols and lower alcohols

Formaldehyde free

Paraben free

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX MTI

Microorganism	Type	MIC (ppm)
Escherichia coli	Bacteria Gram -	20
Pseudomonas aeruginosa	Bacteria Gram -	40
Staphylococcus aureus	Bacteria Gram +	30
Aspergillus niger	Mold	5
Candida albicans	Yeast	10

SHAROMIX MCI

Broad Spectrum Preservative Blends



Sharomix MCI is a liquid blend of Methylchloroisothiazolinone and Methylisothiazolinone. With an active concentration of 1.5% in a water-based solution, it is extremely effective in preventing the growth of bacteria, fungi and yeasts. Sharomix MCI is an ideal preservative for various personal care products with a high water content, including shampoo, hair conditioner, liquid soap, bubble bath and shower gels.

This multi-purpose blend is totally miscible with water, glycols and alcohols, and is not affected by cationic, anionic or nonionic surfactants. Sharomix MCI has a permissible usage concentration of 0.1% (15 ppm active ingredient) maximum. It maintains stability with a pH up to 8.5, and in temperatures below 50°C.

While Sharomix MCI has a wide range of applications, it is not recommended for use with leave-on products and should not be used in applications where direct contact with mucous membranes is likely, such as eye products, lipsticks, and toothpaste. The low concentrations necessary to achieve preservation make this blend a cost-effective preservative.

INCI

Methylchloroisothiazolinone,
Methylisothiazolinone

Appearance

Transparent to pale yellow liquid

Active concentration

Methylchloroisothiazolinone 1.1%
Methylisothiazolinone 0.4%

Solubility

Soluble in water and most alcohols

Formaldehyde free

Paraben free

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX MCI

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	1.0
Escherichia coli	Bacteria Gram -	2
Pseudomonas aeruginosa	Bacteria Gram -	3
Staphylococcus aureus	Bacteria Gram +	3
Bacillus cereus	Bacteria Gram +	2
Staphylococcus epidermidis	Bacteria Gram +	2



INCI

Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben, Phenoxyethanol

Appearance

Transparent, viscous liquid

Solubility

Readily miscible with glycols and alcohols; limited solubility in water

Formaldehyde free

Halogen free

Phenochem is a highly effective preservative blend consisting of Methyl, Ethyl, Propyl, Butyl and Isobutyl esters of 4-hydroxybenzoic acid dissolved in monophenylglycol ether (2-phenoxyethanol). The blend has both a low-toxicity profile and displays very low irritation to the skin, eyes or mucous membranes when used at recommended concentrations. These features make it an excellent choice for most types of rinse-off and leave-on personal care products. Some of Phenochem's applications include shampoo, hair conditioner, styling and bath gels, liquid soap, moisturizing cream, body cream and milks, mascara, suntan lotion, eyeliner, and lipstick.

The most important features of Phenochem include:

- Compatibility with most of the raw materials commonly used in the personal care industry
- Stability over a wide pH range: 3 to 8
- Stability at elevated temperatures
- Non-volatile liquid form, making it easy to handle

The synergistic nature of the mixture enables Phenochem to be far more effective at lower concentrations when compared with individual Parabens.

Due to Phenochem's limited solubility in water, we recommend that it be added to one of the organic phases of the formulation. When necessary, incorporation of Phenochem to the water phase may be assisted by heating the water slightly. If Phenochem is used for the preservation of an emulsion, we recommend that its inclusion be divided between the water and oily phases.

The recommended use concentration varies according to the unique composition of each product. However, the following recommendations can be used as guidelines:

- For products with a high-water content: 2500 to 7000 ppm
- For emulsions, w/o and o/w: 4000 to 9000 ppm
- For products with a high-protein concentration, use levels of up to 13500 ppm are recommended

SOLUBILITY (GR/100 ML AT 20°C)

Water	0.5
Ethanol	soluble
Ethanol 50%	95.0

Glycerine	10.0
Propylene glycol	soluble
Peanut oil	25.0

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR PHENOCEM

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	1000
Escherichia coli	Bacteria Gram -	1750
Pseudomonas aeruginosa	Bacteria Gram -	1500
Bacillus cereus	Bacteria Gram +	1125
Staphylococcus aureus	Bacteria Gram +	1500
Staphylococcus epidermidis	Bacteria Gram +	1500
Aspergillus niger	Mold	1250
Candida albicans	Yeast	1000

SHAROMIX 824

Broad Spectrum Preservative Blends



INCI

Methylparaben, Ethylparaben,
Propylparaben, Phenoxyethanol

Appearance

Transparent, viscous liquid

Formaldehyde free

Halogen free

Sharomix 824 is a liquid blend, short-chained version of Phenochem containing Methylparaben, Ethylparaben and Propylparaben added to Phenoxyethanol. The total concentration of Parabens in Sharomix 824 equals that of Phenochem, making it suitable for formulators who want to avoid the use of Butylparaben and Isobutylparaben.

The blend is highly effective in preserving against fungi and bacteria while the phenoxyethanol adds to the synergy of the three Parabens into maximum efficacy.

Typical usage concentration for this blend is in the range 0.8% to 1.3%. Sharomix 824 is highly stable over a wide pH range of 3 to 8. Like other products that are Paraben-based, Sharomix 824 is heat stable.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 824

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	1000
Escherichia coli	Bacteria Gram -	2000
Pseudomonas aeruginosa	Bacteria Gram -	1750
Bacillus cereus	Bacteria Gram +	2000
Staphylococcus aureus	Bacteria Gram +	2500
Staphylococcus epidermidis	Bacteria Gram +	2250
Aspergillus niger	Mold	1500
Candida albicans	Yeast	1250

PRESERVATIVES FOR FOCUSED PROTECTION



Preservatives for focused protection are characterized by their highly effective preservation properties that target specific groups of microorganisms. Depending upon a product's features, such as pH or water content, a formulator may choose to work with a specific preservative or a combination of several. Our expertise and experience can help you determine just the right system for your formulations.

Sharon Labs specializes in developing tailor-made blends and combinations of preservatives to meet each of our customer's unique needs. Regardless of whether the preservative solution you need is listed below, Sharon Labs can expertly provide you with the right preservation solution.

SHARON LABS PRODUCT	INCI NAME
Bronopol	2-Bromo-2-Nitropropane-1,3-diol
Polyaminopropyl Biguanide (PHMB)	Polyaminopropyl Biguanide
DMDMH	DMDM Hydantoin
Sharomix MT	Methylisothiazolinone
Phenoxyethanol	Phenoxyethanol
Sharomix 431	Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben
Sharomix 331	Methylparaben, Ethylparaben, Propylparaben
Parabens	Methylparaben; Ethylparaben; Propylparaben; Butylparaben
Paraben Salts	Sodium Methylparaben; Sodium Ethylparaben; Sodium Propylparaben

BRONOPOL

Preservatives For Focused Protection



Bronopol strongly inhibits the growth of Gram positive and Gram negative Bacteria. It also is highly effective in eliminating the growth of Pseudomonas species, including pathogenic Pseudomonas aeruginosa. Its applications include cosmetic, pharmaceutical, toiletry and household products.

When the control of yeasts and molds is required, Bronopol can be combined with other antimicrobials that provide additional anti-fungicidal activity. Blends of Bronopol and Parabens give excellent coverage of all microbial spectra. High compatibility with cationic, nonionic, anionic and amphoteric surfactants and many other raw materials, including other preservatives, makes Bronopol a very versatile product.

It is soluble in water and other polar solvents such as propylene glycol and isopropanol. We recommend adding Bronopol to aqueous phase as it will prevent the primary bacterial growth that takes place in this medium.

Bronopol breaks down under alkaline conditions and elevated temperatures and should not be used in combination with secondary amines. This can lead to an undesired chemical reaction and formation of nitrosamines. For cold process products, we recommend adding Bronopol from the onset of the formulation preparation process.

The recommended use level for Bronopol ranges from 0.03% to 0.1%.

INCI

2-Bromo-2-Nitropropane-1,3-diol

CAS number

52-51-7

Appearance

White, dry powder

Solubility

Soluble in water and polar organic solvents

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR BRONOPOL

Microorganism	Type	MIC (ppm)
Escherichia coli	Bacteria Gram -	15
Pseudomonas aeruginosa	Bacteria Gram -	15
Burkholderia cepacia	Bacteria Gram -	15
Staphylococcus aureus	Bacteria Gram +	10
Staphylococcus epidermidis	Bacteria Gram +	15
Aspergillus niger	Mold	2000
Candida albicans	Yeast	1250

PHMB (POLYAMINOPROPYL BIGUANIDE)

Preservatives For Focused Protection



INCI

Polyaminopropyl Biguanide

CAS number

27083-27-8

Appearance

Colorless to pale yellow liquid

Solubility

Soluble in water, alcohols and glycols.

Insoluble in oils and hydrocarbons

Stability

Stable in presence of light, over the pH range 4 to 10 and up to 80°C

PHMB is an aqueous-based cationic preservative, active against spoilage bacteria and is compatible with a wide range of aqueous based cosmetics and personal care formulations. Its gentle nature makes it ideal for both rinse-off and leave-on applications like shampoo (with cationic, nonionic or amphoteric surfactants), hair care products, skin creams, skin lotions, baby products, and wet wipes.

PHMB is available as a 20% water solution. The recommended use level is up to 0.3% active (i.e. 1.5% of the 20% water solution). It is incompatible with anionic surfactants and soaps, should be kept at a pH below 8.0 and should not be heated above 80°C.

When mildness is an important feature for your product, PHMB's gentle and protective nature could make it your solution.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR PHMB

Microorganism	Type	MIC (ppm)
Escherichia coli	Bacteria Gram -	5
Pseudomonas aeruginosa	Bacteria Gram -	100
Pseudomonas putida	Bacteria Gram -	25
Bacillus subtilis	Bacteria Gram +	5
Staphylococcus aureus	Bacteria Gram +	1
Streptococcus faecalis	Bacteria Gram +	25
Aspergillus niger	Mold	750
Endomycopsis albicans	Yeast	300
Saccharomyces cerevisiae	Yeast	100

DMDMH

Preservatives For Focused Protection



INCI

DMDM Hydantoin

CAS number

6440-58-0

Appearance

Transparent, slightly viscous liquid

Solubility

Soluble in water and propylene glycol

Sharon Labs DMDMH is a 55% water-based solution of Dimethyl Dimethylol Hydantoin — ideal for both rinse-off and leave-on products. It is compatible with most personal care ingredients, and due to its high water solubility, can be added to aqueous systems without being heated, making it easy to use. DMDMH protects products such as shampoo, hair conditioner, creams and lotions including shaving cream, and other water-based cosmetics and toiletries.

DMDMH belongs to the formaldehyde-donor preservative group. Like other preservatives from this group (Imidiazolidinyl Urea, Diazolidinyl Urea), it is highly efficient against both Gram positive and Gram negative Bacteria.

A highly durable substance, DMDMH is active at low concentrations, effective over a wide range of pH (3 to 10) and can withstand temperatures up to 80°C. When exposed to temperatures lower than 15°C, crystallization of the product is possible but heating the material will revert this phenomenon, without effecting DMDMH's efficacy.

DMDMH is recommended to use at concentrations of 0.15% to 0.4%. It is also recommended for use in combination with Iodopropynyl butylcarbamate (IPBC), Parabens, or Isothiazolinones to obtain broad spectrum coverage. Its ease of handling, stability, and cost-effectiveness make DMDMH an excellent preservative.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR DMDMH

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	200
Escherichia coli	Bacteria Gram -	400
Pseudomonas aeruginosa	Bacteria Gram -	400
Bacillus Cereus	Bacteria Gram +	200
Staphylococcus aureus	Bacteria Gram +	400
Staphylococcus epidermidis	Bacteria Gram +	400

SHAROMIX MT

Preservatives For Focused Protection



Sharomix MT, an aqueous solution of Methylisothiazolinone, is a global preservative certified for use in Europe, USA and Japan for rinse-off and leave-on products. Used in shampoos, sunscreens, styling and bath gels, hair conditioner, liquid soaps, body creams and milks, Sharomix MT is highly effective, and safe in concentrations up to 0.01% active.

An excellent antimicrobial preservative effective against Gram negative and Gram positive Bacteria. and compatible with anionics, cationics and nonionic surfactants, Sharomix MT remains stable over a wide pH range. In addition, Sharomix MT is not affected by the presence of proteins in the formulation.

In order to broaden the spectra of antimicrobial activity, Sharomix MT can be combined with fungicides. This easy-to-use preservative is formaldehyde free and highly stable, remaining active in temperatures up to 70°C. Sharomix MT provides robust safety and real versatility for a wide range of personal care products.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX MT

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	7.5
Escherichia coli	Bacteria Gram -	15
Pseudomonas aeruginosa	Bacteria Gram -	30
Bacillus Cereus	Bacteria Gram +	15
Staphylococcus aureus	Bacteria Gram +	30
Staphylococcus epidermidis	Bacteria Gram +	30

INCI

Methylisothiazolinone

CAS number

2682-20-4

Appearance

Transparent to pale yellow liquid

Active concentration

9.5%

Solubility

Fully miscible with water, glycols and lower alcohols

PHENOXYETHANOL

Preservatives For Focused Protection



INCI

Phenoxyethanol

CAS number

122-99-6

Appearance

Transparent liquid

Solubility

Soluble in glycols and alcohols,
moderately soluble in water

A well-known preservative for personal care products, Phenoxyethanol is found in a wide range of skin care, hair care, and bath products. Being both low-irritating and low-sensitizing, it can be used in products that necessitate mildness, such as baby products.

Phenoxyethanol is incorporated into a variety of different formulation types due to its solubility characteristics. Preservatives with low water solubility can be dissolved in Phenoxyethanol prior to their incorporation into a formulation, making it an important component in various blends of preservatives. Another advantage of Phenoxyethanol when used as part of a blend is its boosting effect on the antimicrobial properties of the other preservatives.

When using Phenoxyethanol alone, the recommended concentration is up to 1%, but in combination with other antimicrobials, use levels can be reduced. Very stable over wide pH and temperature ranges, Phenoxyethanol performs well against both Gram negative and Gram positive Bacteria. It is also compatible with all surfactant types, anionic, cationic, nonionic and amphoteric, in addition to most antimicrobials and active ingredients.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR PHENOXYETHANOL

Microorganism	Type	MIC (ppm)
Escherichia coli	Bacteria Gram -	3200
Pseudomonas aeruginosa	Bacteria Gram -	3200
Staphylococcus aureus	Bacteria Gram +	6400
Aspergillus niger	Mold	3200
Candida albicans	Yeast	3200

SHAROMIX 431 SHAROMIX 331

Preservatives For Focused Protection



Sharomix 431 and Sharomix 331 are dry blends made up of numerous Parabens. Over 75 years of global approval for use in personal care products, along with an excellent safety record, makes both blends ideal solutions for personal care products. When used as directed, Sharomix dry blends present very low irritation to both skin and eyes, making them suitable for use with cosmetic applications such as eye shadow, along with face and body preparations.

Sharomix 431 and Sharomix 331 are compatible with most compounds and are stable over wide ranges of temperature and pH. Sharomix dry blends are especially effective against Gram positive Bacteria, yeasts and molds.

The combination of several Parabens in a blend yields a strong synergistic effect, providing enhanced anti-fungal activity. By using Sharomix 431 and 331, you will be able to minimize the concentrations of preservatives, reducing the overall cost of the formulation.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 431 & 331

Microorganism	Type	431 MIC (%)	331 MIC (%)
<i>Pseudomonas aeruginosa</i>	Bacteria Gram -	0.14	0.16
<i>Staphylococcus aureus</i>	Bacteria Gram +	0.05	0.14
<i>Aspergillus niger</i>	Mold	0.05	0.08
<i>Candida albicans</i>	Yeast	0.025	0.06

Sharomix 431 INCI

Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben

Appearance

White, dry powder

Sharomix 331 INCI

Methylparaben, Ethylparaben, Propylparaben

Appearance

White, dry powder

PARABENS

Preservatives For Focused Protection



Parabens are the most commonly used preservatives in personal care products.

Parabens display a low irritation potential, have low toxicity levels, and are active against a wide spectrum of fungi and bacteria at low concentrations. They are stable and effective over a wide pH range, can withstand temperatures up to 100°C, and are biodegradable. Also, they are highly compatible with other compounds.

When combining two or more Parabens, their antimicrobial performance is enhanced due to a synergistic effect. While this is not a complete listing of Paraben features, it is clear why they are such an effective preservative and so commonly used.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR PARABENS

Microorganism	Methyl	Ethyl	Propyl	Butyl
Aspergillus niger	600	300	300	200
Candida albicans	900	500	200	100
Pseudomonas aeruginosa	1600	1500	>900	-
Bacillus cereus	1600	800	300	100
Burkholderia cepacia	600	350	200	200
Escherichia coli	1400	700	350	140
Staphylococcus epidermidis	2000	900	350	150
Staphylococcus aureus	2000	1000	300	110

All the Parabens have low aqueous solubility, but will dissolve in most systems at temperatures above 60°C. When considering the solubility of Parabens, we recommend dissolving short-chained Parabens (such as Methylparaben) in the aqueous phase and longer-chained Parabens in the oil phase. If all the Parabens must be introduced to the water phase, pre-heating of the water is recommended. In the event that heating is undesirable, we recommend using Paraben sodium salts.

SOLUBILITY (GR/100GR) 25° C

	Methyl	Ethyl	Propyl	Butyl
Water 15° C	0.16	0.07	0.023	0.015
Water 25° C	0.25	0.12	0.04	0.15
Water 80° C	3.2	0.86	0.45	0.15
Ethanol 10%	0.5	-	0.1	-
Ethanol 50%	18	-	18	-
Ethanol 100%	52	72	95	200
Propylene Glycol 100%	22	22	26	-
Propylene Glycol 50%	2.7	-	0.9	-
Glycerine	1.7	0.6	0.4	0.4
Peanut oil	1.0	-	1.4	-

INCI

Methylparaben
Ethylparaben
Propylparaben
Butylparaben

CAS

99-76-3
120-47-8
94-13-3
94-26-6

Appearance

White, dry powder

Solubility

Soluble in propylene glycol, phenoxyethanol, ethanol etc., limited solubility in water

PARABEN SALTS

Preservatives For Focused Protection



Paraben Salts exhibit the same antimicrobial activity as regular Parabens. They are characterized by their high solubility in cold water and are extremely effective preservatives regularly used in hair styling gels, hair care products, toothpaste and oral care products.

Paraben Salts can be particularly useful when the heating of an aqueous system is undesirable. Typical use concentrations are 0.1 to 0.3%, but due to the salts' increase in molecular weight it is often necessary to use a slightly higher concentration of Paraben Salts compared to regular Parabens.

With high water solubility, Parabens Salts can be used in aqueous products that cannot be heated. When using the Paraben Salts for products that are heated, the heating stage must be performed before the inclusion of the Paraben Salt to avoid the possibility of hydrolysis of the Paraben ester. Sharon Labs experts can give you precise instructions for the best results.

SOLUBILITY OF PARABEN SALTS WITHIN VARIOUS SOLVENTS. ALL RESULTS IN GR/100 ML AT 25°C

Solvent	Sodium Methylparaben	Sodium Propylparaben
Water	80	100
Ethanol 100%	2	2
Ethanol 50%	30	50
Propylene Glycol	25	40
Glycerine	50	50

INCI

Sodium Methylparaben
Sodium Ethylparaben
Sodium Propylparaben

CAS

5026-62-0
35285-68-8
35285-69-9

Appearance

White, dry powder

Solubility

Highly soluble in cold water

SHARON LABS

INNOVATIVE BLENDS



For over 30 years, Sharon Labs has been providing preservation solutions to the personal care industry. During that time, we have garnered the experience and expertise to meet the needs of our customers, and the industry's emerging trends.

Our Innovative Blends exemplify our commitment and ability to provide our customers with exactly what they need. In direct response to market and customer demand, Sharon Labs has created custom preservative solutions that preserve the quality of your products while meeting specific criteria.

The Innovative Blends group is divided into two sub-groups:

Green Preservatives

These mild blends are Paraben and formaldehyde free. Their liquid form makes them very easy to handle. The following blends are available in Sharon Laboratories' portfolio:

- Sharomix 702 – A liquid blend of Dehydroacetic Acid & Benzoic Acid in Phenoxyethanol
- Sharomix 705 – A liquid blend of Benzoic Acid, Sorbic Acid & Dehydroacetic Acid in Benzyl alcohol
- Sharomix 706 – A liquid blend of Dehydroacetic Acid & Benzoic Acid in Benzyl alcohol
- Sharomix 707 – A liquid blend of Benzoic Acid, Sorbic Acid, Dehydroacetic Acid & Caprylyl Glycol in Benzyl alcohol

Blends based on Short-chained Parabens:

When combining several Parabens together, a synergistic effect is obtained. To benefit the most from this, various Sharomix blends have been developed. This group of products includes both liquid and powder blends that combine two short-chained Parabens.

- Sharomix ME – A liquid blend of Phenoxyethanol, Methylparaben & Ethylparaben
- Sharomix ME 14 / ME 16 / 516 – A liquid blend of Propylene Glycol, Methylparaben & Ethylparaben (each with different concentration levels)
- Sharomix 410 – A liquid blend of Methylparaben & Ethylparaben in Benzyl alcohol
- Sharomix 221 – A dry blend of Methylparaben & Ethylparaben

SHAROMIX 705 SHAROMIX 706

Sharon Labs Innovative Blends



Sharomix 705 INCI

Benzoic Acid, Sorbic Acid,
Dehydroacetic Acid, Benzyl alcohol

Appearance

Transparent to slightly yellow liquid

Sharomix 706 INCI

Dehydroacetic Acid, Benzoic Acid,
Benzyl alcohol

Appearance

Transparent to slightly yellow liquid

Formaldehyde free

Halogen free

Paraben free

Sharomix 705 and Sharomix 706 are new preservative blends. They were developed to meet an emerging demand for mild and environmental friendly cosmetic raw materials. The blends are based on organic acids dissolved in Benzyl alcohol.

Being liquids makes these products easy to incorporate into formulations.

As the anti microbial activity of the 2 products is based on organic acids, which are active on their undissociated form, these products will be at their best performance at slightly acidic pH.

All components of both Sharomix 705 and Sharomix 706 are listed on Ecocert's approved list of preservatives.

Recommended use concentrations for both blends range from 0.6% to 1.2%.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 705 & 706

Microorganism	Type	705 MIC (ppm)	706 MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	2250	2000
Escherichia coli	Bacteria Gram -	2500	2000
Pseudomonas aeruginosa	Bacteria Gram -	2500	2000
Bacillus cereus	Bacteria Gram +	2250	1500
Staphylococcus aureus	Bacteria Gram +	1750	1500
Aspergillus niger	Mold	2250	3000
Candida albicans	Yeast	875	1250

SHAROMIX 702

Sharon Labs Innovative Blends



Sharomix 702, one of our Formaldehyde and Paraben free blends, comes in an easy-to-use liquid form, containing a combination of organic acids and Phenoxyethanol. It provides broad-spectrum protection for both leave-on and rinse-off products — a global preservative system for cosmetic formulations.

Sharomix 702 protects against bacteria, yeasts and molds. At high concentrations it can be used as a single broad-spectrum preservative as long as the pH of the product does not exceed 5.5.

Since Sharomix 702 is not stable at above 40°C, when producing emulsions we recommend its addition to formulations during the cooling stage of the production. It has a recommended usage level of 0.5% to 1.35%.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 702

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	2250
Escherichia coli	Bacteria Gram -	2000
Pseudomonas aeruginosa	Bacteria Gram -	2500
Bacillus cereus	Bacteria Gram +	1750
Staphylococcus aureus	Bacteria Gram +	2500
Staphylococcus epidermidis	Bacteria Gram +	1750
Aspergillus niger	Mold	2500
Candida albicans	Yeast	750

INCI

Dehydroacetic Acid, Benzoic Acid, Phenoxyethanol

Appearance

Transparent to slightly yellow liquid

Formaldehyde free

Halogen free

Paraben free

SHAROMIX 707

Sharon Labs Innovative Blends



Another Formaldehyde and Paraben free blend, Sharomix 707 comes in a liquid form that provides broad-spectrum protection. Mild and safe for a variety of applications, it is used in rinse-off and leave-on products like creams, lotions, shampoo, liquid soap, shower gels and hair conditioners.

In addition to the organic acids and Benzyl alcohol that Sharomix 707 is made up of, it also contains Caprylyl Glycol, a mild emollient that contributes to the antimicrobial performance of the blend. The ingredients contained in Sharomix 707 are globally approved for all cosmetic applications. It is recommended to use this blend for cosmetic formulations with pH values up to 6. The recommended usage level for Sharomix 707 is in the range of 0.6% to 1.2%.

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX 707

Microorganism	Type	MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	2250
Escherichia coli	Bacteria Gram -	2500
Pseudomonas aeruginosa	Bacteria Gram -	2500
Bacillus cereus	Bacteria Gram +	1750
Staphylococcus aureus	Bacteria Gram +	1125
Candida albicans	Yeast	875

INCI

Benzoic Acid, Sorbic Acid,
Dehydroacetic Acid, Caprylyl Glycol,
Benzyl alcohol

Appearance

Transparent to slightly yellow liquid

Formaldehyde free

Halogen free

Paraben free

BLENDS BASED ON SHORT-CHAIN PARABENS

Sharon Labs Innovative Blends



Parabens have proven to be both safe and extremely effective preservatives for combating yeasts and molds in cosmetic formulations. Short-chained Parabens have enjoyed worldwide acceptance with over 75 years of safe use. They are very commonly used in both leave-on and rinse-off formulations. Combinations of Methylparaben and Ethylparaben are available in Phenoxyethanol, Propylene glycol and Benzyl alcohol. The pre-solubilization of Parabens in a liquid medium makes their incorporation into formulations faster and easier.

Sharomix 221 can be used for the preservation of powder products such as eye shadow. The inclusion of Phenoxyethanol in Sharomix ME and Benzyl alcohol in Sharomix 410 enhance the antibacterial properties of these products.

All four products can be used over a wide pH range (3 to 8) and will retain full activity even after heating up to 80°C. Recommended usage concentration for the liquid blends are 0.4% to 1.0%. The recommended use level for Sharomix 221 is 0.3% to 0.6%.

PRODUCT	INCI
Sharomix ME	Phenoxyethanol Methylparaben Ethylparaben
Sharomix ME16	Propylene glycol Methylparaben Ethylparaben
Sharomix 410	Benzyl alcohol Methylparaben Ethylparaben
Sharomix 221	Methylparaben Ethylparaben

MINIMUM INHIBITION CONCENTRATIONS (MIC) FOR SHAROMIX ME/ME 16

Microorganism	Type	ME MIC (ppm)	ME 16 MIC (ppm)
Burkholderia cepacia	Bacteria Gram -	2500	1500
Escherichia coli	Bacteria Gram -	2500	4000
Pseudomonas aeruginosa	Bacteria Gram -	2750	4000
Bacillus cereus	Bacteria Gram +	3000	3000
Staphylococcus aureus	Bacteria Gram +	3000	4000
Staphylococcus epidermidis	Bacteria Gram +	4000	3500
Aspergillus niger	Mold	1600	1600
Candida albicans	Yeast	2000	2250

Appearance

The first three blends are transparent to yellowish liquids. Sharomix 221 is a white powder

Formaldehyde free

Halogen free

In order to assist you in finding the right Sharon Labs preservative system for your formulations, we are providing you with our Tips & Types quick user guide. You can use the Tips & Types table to locate the Sharon Labs preservative systems that are compatible with your products.

Our team of specialists, experts in global regulatory requirements, can then assist you in determining the system that best suits your product, in addition to recommending the right process and raw material controls. Sharon Labs' state-of-the-art analytical and microbiological technology along with ISO certification and environmentally friendly production facilities, ensure our product safety and quality as well as yours.



		DMDMH	MP	EP	PP	BP	SMP	SPP	Phenochem	Sharomix 824	Sharomix 431	Sharomix 331	Sharomix 300	Bronopol	Sharomix 938	Sharomix 702	Sharomix 705,706,707	Sharomix MT	Sharomix MCI	Sharomix MTI	Sharomix DMP + DMP II	Sharonox 2000	Polyaminopropyl Biguanide (PHMB)	
Rinse off products	Shampoo	+++	+	+	+	+	+	+	+	+	+	+	+++	+++	+	+	+	+++	+++	+++	+++	+	+	
	Liquid soap	+++	+	+	+	+	+	+	+	+	+	+	+++	+++	+	+	+	+++	+++	+++	+++	+	+	
	Shower gel	+++	+	+	+	+	+	+	+	+	+	+	+++	+++	+	+	+	+++	+++	+++	+++	+	+	
	Conditioner	+++	++	++	++	++	++	++	++	++	++	++	+++	+++	++	+++	++	+++	+++	+++	+++	+++	+	+
	Hair mask	+++	++	++	++	++	++	++	++	++	++	++	+++	+++	++	+++	++	+++	+++	+++	+++	+++	+	+
Leave on products	Body lotion	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Hand cream	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Moisturizer	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Anti aging cream	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Face mask	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Sunscreen	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Eye cream	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	-	-	+++	+++	+++	
	Hair styling gel	+++	++	++	++	++	+	+	+	+	+++	+++	+++	+++	+++	+++	+++	+++	+++	-	-	+	-	-
	Make up remover	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	+++	-	-	+++	+++	+++
	Tonic lotion	+++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	+++	-	-	+++	+++	+++
Color cosmetics	Mascara	+	+++	+++	+++	+++	-	-	+++	+++	+++	+++	-	-	-	-	-	-	-	-	+	+++	+++	
	Eye liner	+	+++	+++	+++	++	+	+	+	+	+++	+++	-	-	-	-	-	-	-	-	+	+++	+++	
	Lipstick	+	+++	+++	+++	++	+	+	+	+	+++	+++	-	-	-	-	-	-	-	-	+	-	+++	
	Eye shadow	-	+++	+++	+++	+++	-	-	-	-	+++	+++	-	-	-	-	-	-	-	-	-	-	-	
Wet wipes	Baby cleansers	++	+	++	++	++	+++	+++	+++	+++	+++	+++	+	+	+++	+++	+++	+++	+++	-	-	++	+++	+++
	Make up remover	++	++	++	++	++	+	+	+	+	+++	+++	+	+	+++	+++	+++	+++	+++	-	-	+++	+++	+++
Oral care	Tooth paste	-	+++	+++	+++	+++	+++	++	-	-	++	+++	-	-	-	-	-	-	-	-	-	-	+	
	Mouth wash	-	++	++	++	++	+++	++	-	-	++	++	-	-	-	-	-	-	-	-	-	-	+	

+++ Highly recommended ++ Recommended + Suitable - Not recommended  Halogen Free  Formaldehyde Free  Paraben Free

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