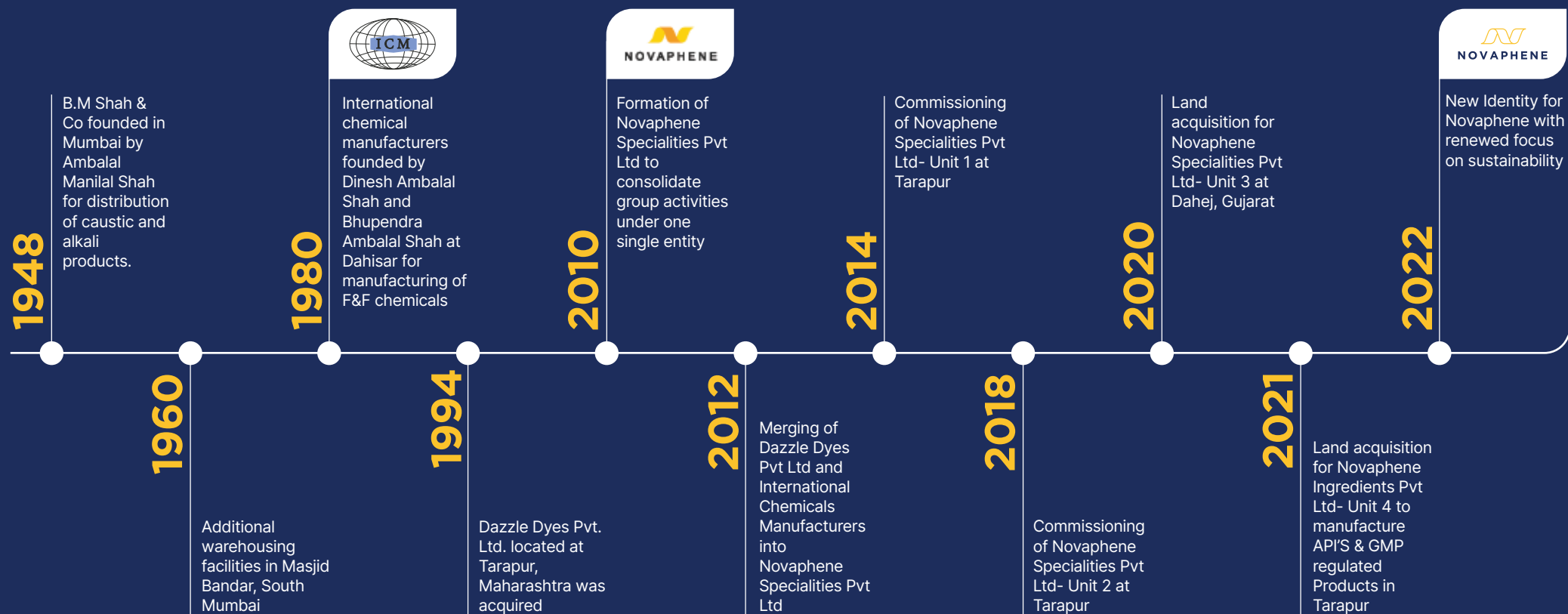


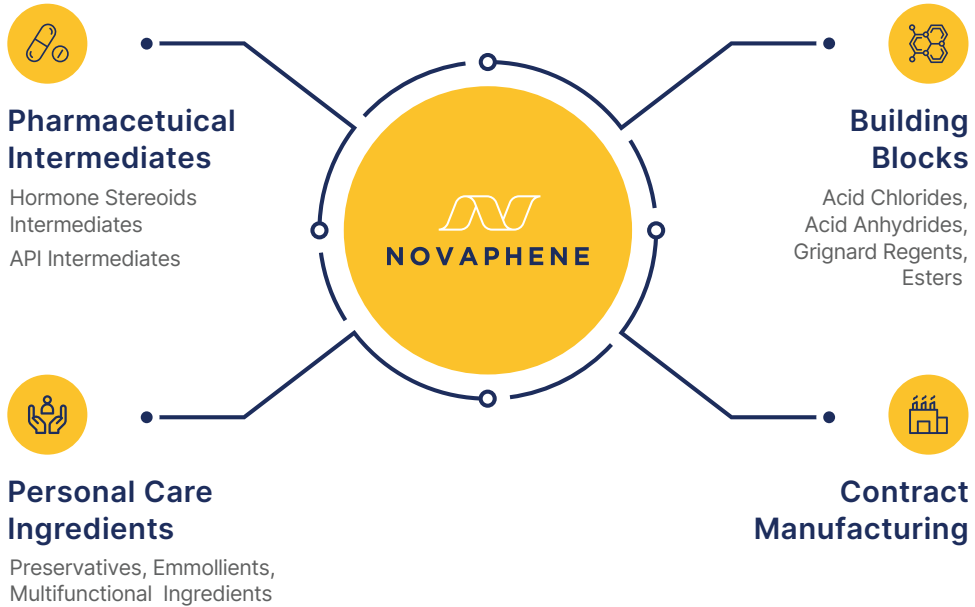


Personal Care Ingredients

**SCIENCE MEETS SUSTAINABILITY**

# 70 Years of Legacy in the Indian Chemical Industry





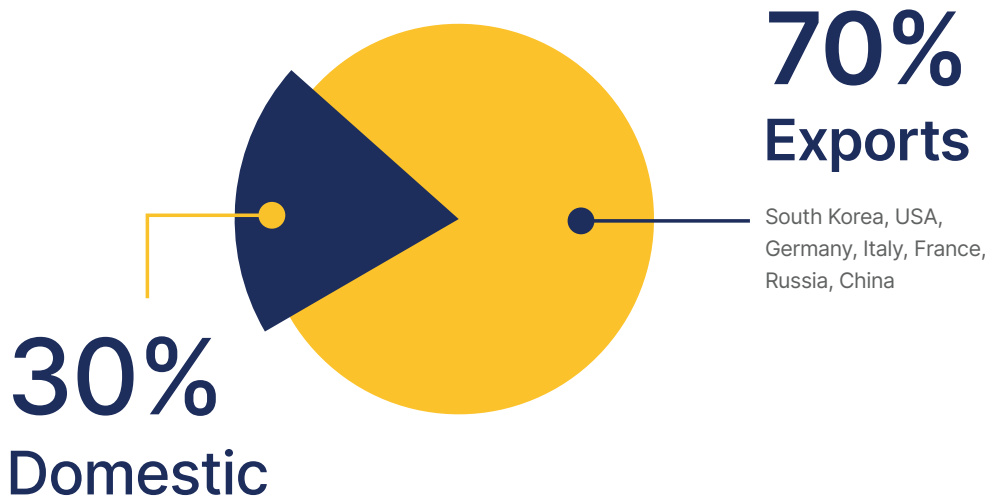
Market leader in personal care preservatives



One of the largest manufacturers of Ethylhexylglycerine, 1,2-Hexanediol and 1,2-Octanediol



Trusted supplier for high purity intermediates for hormones and steroids manufacturers



## 04 Manufacturing Sites

Dahej, Gujarat  
Unit 3

Tarapur, Maharashtra  
Unit 1, 2 & 4

Head Office  
Mumbai, Maharashtra



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



D-U-N-S Registered



Halal Certified



OU Kosher Certified



Reach Registered



Ecovadis Certified



Cosmos Approved

# Personal Care

Sustainable bio-based ingredients

## Personal care portfolio

### NOVAGUARD™

Novaguard range consists of Innovative paraben free preservatives and multifunctional ingredients. They offer broad spectrum activity that provides cost effective and optimal protection for your products. Novaguard offers versatile, multifunctional ingredients and numerous preservative blends for all types of personal care applications.

### NOVAPRESERV™

Novapreserv preservatives are broad spectrum antimicrobial agent comprising a synergistic blend of esters of parahydroxybenzoic acid (parabens), Phenoxyethanol and others designed for preservation of a wide range of cosmetics and personal care formulations.

### NOVASOLVE™

Novasolve offers a comprehensive line of high-performance emollients for personal care applications. Emollients play an important role in moisturizing the skin and hair as they form a protective layer. In formulations containing high pigment levels, such as sun care products, emollients play a key role.

### NOVAKARE™

Novakare range of active ingredients improve the skin care properties of cosmetics formulations. With their unique properties they are suitable in a wide range of cosmetic applications, including creams, lotions, shampoos and others.

## Applications



Rinse Off



Leave On



Skin Care



Hair Care



Shower Gel



Wet Wipes



Baby Care



Deodorants



Sun Care



Shampoo & Conditioners



Natural Origin















Reach Registered

# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients

| Product Name  | INCI Name                          | Form   | Description  | pH         | Temp | Usage                                 | Microbiology Efficiency |     |    |     | Applications  |
|---|------------------------------------|--------|--|------------|------|---------------------------------------|-------------------------|-----|----|-----|---|
|   |                                    |        |  |            |      |                                       | G-                      | G+  | Y  | M   |   |
| Novaguard™ EHG<br>  | Ethylhexylglycerin                 | Liquid | Novaguard EHG is a completely odorless, versatile and multi-functional ingredient with antimicrobial efficacy. It provides boosting effect on antimicrobials and preservatives. It is easy to handle and pH independent. | 3.0 – 12.0 | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | +++                     | ++  | ++ | +   |    |
| Novaguard™ EHG NG<br>  | Ethylhexylglycerin                 | Liquid | Novaguard EHG NG is completely odorless and partially natural origin ethylhexylglycerin. It is derived from vegetal origin glycerine.  | 3.0 – 12.0 | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | +++                     | ++  | ++ | +   |    |
| Novaguard™ CG<br>   | Caprylyl Glycol / 1,2 - Octanediol | Liquid | Novaguard CG is a low odor humectant, skin conditioning agent and preservative booster. It works synergistically with other preservatives and offers broad protection.   | 3.0 – 9.0  | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | ++                      | ++  | ++ | +   |    |
| Novaguard™ HG<br>   | 1,2-Hexanediol                     | Liquid | Novaguard HG is a completely odorless multifunctional ingredient. It is an excellent moisturizer and cosmetic solvent with good anti-microbial effect and preservative booster   | 3.0 – 9.0  | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | +++                     | ++  | ++ | +   |    |
| Novaguard™ PG<br>   | 1,2-Pentanediol                    | Liquid | Novaguard PG is a completely odorless and effective skin humectant with emollient properties. It is a multifunctional ingredient with antimicrobial properties.  | 3.0 – 9.0  | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | +++                     | ++  | ++ | +   |    |
| Novaguard™ DG   | 1,2-Decanediol                     | Liquid | Novaguard DG is multifunctional skin conditioning emollient with antimicrobial and deodorant properties.   | 3.0 – 12.0 | 80°C | 0.3 – 1.0%*<br><br>0.3 – 1.0%**       | +++                     | ++  | +  | +   |  |
| Novaguard™ PE   | Phenoxyethanol                     | Liquid | Effective control against a broad range of bacteria, Compatible with most personal care ingredients, Low odor level  | 3.0 – 8.5  | 80°C | 0.4 – 1.0%*<br><br>0.4 – 1.0%**       | ++                      | +   | 0  | 0   |  |
| Novaguard™ C8G<br>  | Capryloyl Glycine                  | Powder | Naturally Derived Multifunctional Ingredient acts as an anti-acne, anti-dandruff and anti-bacterial active.  | 5.0 – 7.0  | 60°C | 0.5 – 2.0%*<br><br>0.5 – 2.0%**       | +++                     | +++ | ++ | ++  |  |
| Novaguard™ CHA<br>  | Capryl Hydroxamic Acid             | Powder | Novaguard CHA is a 100% biobased chelating agent and organic acid that inhibits microbial growth in formulations when used in combination with other multifunctional ingredients.  | 7.0        | 60°C | 0.05% - 0.15%**<br><br>0.05% - 0.15%* | ++                      | ++  | +  | +++ |  |

# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients

| Product Name  | INCI Name                                      | Form                | Description   | pH        | Temp | Usage                                | Microbiology Efficiency |     |     |    | Applications  |
|---|--|---------------------|---|-----------|------|--------------------------------------|-------------------------|-----|-----|----|---|
|   |  |                     |   |           |      |                                      | G-                      | G+  | Y   | M  |   |
|  Novaguard™ LAE | Ethyl LauroylArginate HCL                      | Powder              | Naturally Derived, Highly Antibacterial, Anti-dandruff, Provides Smoothness to the skin and hair, Safe Natural Alternative to traditional preservatives.                    | 3.0 – 7.0 | -    | 0.5 – 2.0%*<br><b>0.5 – 2.0%**</b>   | ++                      | +++ | +   | 0  |    |
|  Novaguard™ UG  | Undecylenoyl Glycine                           | Powder              | Naturally Derived as an anti-acne, anti-dandruff, anti-microbial and deo active. Protects cosmetic formulations.  | 5.0 – 7.0 | 60°C | 0.5 – 2.0%*<br><b>0.5 – 2.0%**</b>   | +++                     | +++ | ++  | ++ |    |
|  Novaguard™ GMC | Glyceryl Caprylate                             | Liquid              | Novaguard GMC is a 100% naturally derived multifunctional ingredient. It is an emollient, co-emulsifier, refatting and antimicrobial agent.                                 | 4.0 – 7.0 | 80°C | 0.8 – 1.0%*<br>-                     | +++                     | +++ | +++ | ++ |    |
|  Novaguard™ GMU | Glyceryl Undecylenate                          | Liquid / soft paste | Moisturising effect of glycerine along with protection from Gram+ and Gram- bacteria, fungi, yeast and mold   | -         | -    | -<br>-                               | +++                     | +++ | ++  | ++ |    |
| Novaguard™ DHA  | Dehydroacetic Acid                             | Powder              | Preservative with high efficacy against fungi & yeasts. Easy-to-use and compatible with most types of cosmetic formulations   | 2.0 – 6.5 | 80°C | 0.1 – 0.6%*<br><b>0.1 – 0.6%**</b>   | +++                     | +++ | ++  | +  |    |
| Novaguard™ EHGP   | Ethyl Hexyl Glycerine, Phenoxyethanol          | Liquid              | Paraben & formaldehyde free preservative. It provides broad spectrum protection against bacteria, yeasts and mold fungi.  | 3.0 – 9.0 | 80°C | 0.5 – 1.0%*<br><b>0.5 – 1.0%**</b>   | ++                      | ++  | ++  | ++ |   |
| Novaguard™ CGP  | Caprylyl Glycol, Phenoxyethanol                | Liquid              | Novaguard CGP is paraben and formaldehyde free apreservative. It offers great protection against microbial growth while imparting exceptional feel to the finished product. | 4.0 – 8.0 | 80°C | 0.5 – 1.0%*<br><b>0.5 – 1.0%**</b>   | +++                     | +++ | ++  | ++ |  |
| Novaguard™ ECG  | Caprylyl Glycol, Ethyl Hexyl glycerine         | Liquid              | Novaguard ECG is based on two multifunctional ingredients and acts as a mild humectant and skin emollient. It boosts the efficacy of traditional cosmetic preservatives.    | 3.0 – 9.0 | 80°C | 0.5 – 2.0%*<br><b>0.5 – 2.0%**</b>   | ++                      | ++  | +   | +  |  |
| Novaguard™ COS  | Phenoxyethanol, Chlorphenesin, Caprylyl Glycol | Liquid              | Formaldehyde free & Paraben free broad spectrum preservative.   | 3.0 – 8.0 | 80°C | 0.75 – 1.5%*<br><b>0.75 – 1.5%**</b> | ++                      | +++ | +   | +  |  |

# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients


| Product Name    | INCI Name  | Form   | Description  | pH         | Temp | Usage                                | Microbiology Efficiency |     |     |     | Applications |
|-----------------|--|--------|--|------------|------|--------------------------------------|-------------------------|-----|-----|-----|--------------|
|                 |  |        |  |            |      |                                      | G-                      | G+  | Y   | M   |              |
| Novaguard™ PCS  | Caprylyl Glycol, Phenoxyethanol, Sorbic Acid                       | Liquid | Globally approved safe and effective broad spectrum preservation system.   | 3.0 – 6.0  | 80°C | 0.75 – 1.5%*<br><b>0.75 – 1.5%**</b> | +++                     | +++ | ++  | ++  |              |
| Novaguard™ PEG  | Phenoxyethanol, Triethylene glycol                                 | Liquid | It is a paraben free, thiazolinone free and formaldehyde free ready to use preservative blend, increase the effectiveness of active ingredients, reduce surface activity                         | 2.0 - 6.5  | 80°C | 0.1 – 0.6%*<br><b>0.1 – 0.6%**</b>   | ++                      | +++ | +++ | +++ |              |
| Novaguard™ PEBG | Ethylhexylglycerin, Phenoxyethanol, Benzoic Acid, Glycerol Cocoate | Powder | It has a broad spectrum, liquid preservative system free of parabens, formaldehyde, and isothiazolinones. It is effective at a wide pH range and is cost effective in wide range of formulation. | 2.0 - 6.5  | 80°C | 0.1 – 0.6%*<br><b>0.1 – 0.6%**</b>   | ++                      | ++  | ++  | ++  |              |
| Novaguard™ E3PP | Ethylhexylglycerin, Phenylpropanol                                 | Liquid | Easy-to-use and compatible with most types of cosmetic formulations. Effective humectant properties, Deodorizing properties.   | 3.0 - 12.0 | 80°C | 0.4 - 0.8%*<br>-                     | ++                      | ++  | +   | +   |              |
| Novaguard™ K900 | Ethylhexylglycerin, Benzyl Alcohol                                 | Liquid | It is a liquid cosmetic preservative based on benzyl alcohol and ethylhexylglycerin.   | <12.0      | 80°C | 0.5 - 1.0%*<br><b>0.5 - 1.0%**</b>   | ++                      | ++  | +   | +   |              |
| Novaguard™ PA20 | Ethylhexylglycerin, Phenethyl alcohol                              | Liquid | It synergistically enhance the efficacy of antimicrobial components.   | 5.0 - 7.0  | -    | 0.5 – 1.0 %*<br>-                    | +++                     | ++  | +   | ++  |              |
| Novaguard™ EPP  | Ethylhexylglycerin, Propanediol                                    | Liquid | Enhance the efficacy of antimicrobial components, Moisturizing Agent, Humectant, Carrier, Viscosity Modifier, Emollient.   | 4.0 - 9.0  | 80°C | 0.5 - 2.0%*<br>-                     | +++                     | ++  | +   | +   |              |
| Novaguard™ PFA  | Phenethyl alcohol, Caprylyl glycol                                 | Liquid | It possesses good moisturizing activity, non-irritating and non-sensitizing and has broad spectrum activity. It has good foaming power, enhances clarity.  | 4.0 - 8.0  | 80°C | 0.6-1.2%*                            | +++                     | +++ | ++  | ++  |              |
| Novaguard™ PCH  | Caprylyl Glycol, Phenoxyethanol, Hexylene glycol                   | Liquid | It is globally approved, broad spectrum, liquid preservative   | 2.0 - 9.0  | -    | 0.7 - 1.0 %*<br><b>0.7 - 1.0 %**</b> | +++                     | +++ | ++  | ++  |              |

# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients

| Product Name                   | INCI Name  | Form   | Description  | pH        | Temp            | Usage                        | Microbiology Efficiency |     |    |    | Applications |
|--------------------------------|--|--------|--|-----------|-----------------|------------------------------|-------------------------|-----|----|----|--------------|
|                                |  |        |  |           |                 |                              | G-                      | G+  | Y  | M  |              |
| Novaguard™ PA40                | Caprylyl Glycol, Phenyl Propanol, Propanediol                          | Liquid | Multi-functional ingredient with pH independent antimicrobial activity. It is designed to minimize the risk of destabilization.  | <12.0     | 80°C            | -                            | +++                     | ++  | ++ | ++ |              |
| Novaguard™ HCG                 | 1,2-Hexanediol, 1,2-Octanediol   | Liquid | Acts as a moisturizing agent, Compatible with most cosmetic systems – anionic, non-ionic, amphoteric, liposome, etc  | -         | 93.3°C          | 0.5 - 1.5%*<br>0.5 - 1.5%**  | +++                     | ++  | +  | +  |              |
| Novaguard™ 700/701/702/704/705 | Phenoxyethanol, Dehydroacetic Acid, Benzoic Acid                       | Liquid | Acts as a formaldehyde, paraben and halogen free preservative. Easy to use liquid preservative system combining organic acids and phenoxyethanol.  | 3.0 - 5.5 | 80°C            | 0.5 - 1.35%*<br>0.5 - 1.35%* | +++                     | +++ | ++ | +  |              |
| Novaguard™ K701                | Dehydroacetic Acid, Phenoxyethanol, Benzoic acid, Ethylhexyl glycerine | Liquid | It is a typically biostatic product with the biocidal properties   | ≤ 6       | 40<br>-<br>80°C | -                            | +++                     | +++ | ++ | +  |              |
| Novaguard™ K903                | Dehydroacetic acid, Benzyl alcohol, Benzoic acid                       | Liquid | It has a broad, balanced spectrum of effect against bacteria, yeast and mold.  | 6.0       | > 80 °C         | 1.20%*<br>-                  | +++                     | +++ | ++ | +  |              |
| Novaguard™ DBA                 | Dehydroacetic acid, Benzyl alcohol                                     | Liquid | It is a blend of an organic acid with benzyl alcohol which can be used for the gentle preservation of all personal care products.  | 6.0       | -               | 0.2 - 1.0%*<br>0.2 - 1.0%**  | +++                     | +++ | ++ | +  |              |
| Novaguard™ OMP                 | Methylpropanediol, Caprylyl Glycol, Phenylpropanol                     | Liquid | Novaguard OMP is a liquid synergistic mixture of ingredients with excellent pH independent antimicrobial activity. It has a low influence on stability and viscosity of emulsions and it can be used in water based system | Unlimited | <80°C           | 1.0% – 1.5%                  | ++                      | ++  | ++ | ++ |              |
| Novaguard™ BGS                 | Benzyl Alcohol, Salicylic Acid, Glycerin, Sorbic Acid                  | Liquid | It has a wide range of global regulatory acceptance for personal care products.  | 3.0 - 8.0 | -               | 0.6 - 1.0%*                  | ++                      | ++  | ++ | +  |              |



# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients

| Product Name  | INCI Name  | Form   | Description   | pH        | Temp | Usage                         | Microbiology Efficiency |     |     |    | Applications |
|---|--|--------|---|-----------|------|-------------------------------|-------------------------|-----|-----|----|--------------|
|   |  |        |   |           |      |                               | G-                      | G+  | Y   | M  |              |
| Novaguard™ PCE  | Pentylene glycol, Caprylyl Glycol, Ethylhexylglycerin  | Liquid | Unique alternative for the gentle & effective preservation.   | -         | -    | -<br>-                        | ++                      | ++  | +   | +  |              |
| Novaguard™ PPP  | Pentylene Glycol, Phenyl Propanol                      | Liquid | Novaguard PPP acts as an antimicrobial protection agent, moisturizer, emollient, fragrance & masking agent.   | > 10.0    | -    | -<br>-                        | +++                     | ++  | +   | +  |              |
| Novaguard™ PBS  | Pentylene glycol, sodium benzoate, Benzoic acid, water | Liquid | It is a dual-functional blend, designed for the microbial protection.   | 5.5 - 6.5 | 80°C | 1.0 - 3.0%*<br>-              | +++                     | ++  | +   | +  |              |
| Novaguard™ PGCC   | Pentylene Glycol, Glyceryl Caprylate/ Caprate          | Liquid | It is a sustainable, mild and multifunctional solution for the microbial protection of cosmetics.   | Upto 7.0  | -    | -<br>-                        | +++                     | +++ | +++ | ++ |              |
| Novaguard™ PCC  | Caprylyl Glycol, Phenoxyethanol, Chloroxylenol         | Liquid | A broad spectrum cosmetic preservative.   | -         | -    | 0.5 - 1.00%*<br>-             | +++                     | +++ | ++  | ++ |              |
| Novaguard™ K712   | Sodium Benzoate, Potassium Sorbate, Water              | Liquid | Globally approved preservative with bactericidal and fungicidal effect.   | Upto 5.5  | 80°C | 0.5 - 1.00%*<br>0.5 - 1.00%** | ++                      | ++  | +   | +  |              |
| Novaguard™ HGMPD  | Hexylene Glycol  | Liquid | Novaguard HGMPD has excellent solvency among a wide variety of materials and is popular in skin care formulations due to its ability to improve the texture. It also has viscosity-reducing properties. | 6.0 - 8.0 | 96°C | -                             | +++                     | ++  | +   | +  |              |
| Novaguard™ CUP  | Capryloyl Glycine, Undecenoyl Glycine, Phenoxyethanol  | Liquid | Naturally Derived Colorless, odorless, asy-to-use,Paraben -free and Formaldehyde-donors-free,It is free from halogenated or phenolic molecules  | 5.5 - 7.0 | 40°C | 0.5 - 1.2%*                   | +++                     | +++ | ++  | +  |              |

# NOVAGUARD™ Innovative paraben free preservatives and multifunctional ingredients

| Product Name    | INCI Name  | Form   | Description  | pH        | Temp     | Usage                           | Microbiology Efficiency |     |    |    | Applications |
|-----------------|--|--------|--|-----------|----------|---------------------------------|-------------------------|-----|----|----|--------------|
|                 |  |        |  |           |          |                                 | G-                      | G+  | Y  | M  |              |
| Novaguard™ CUBS | Capryloyl Glycine, Undecenoyl Glycine, benzoic acid, Sodium dehydroacetate | Powder | It is preservative system Based on synergistics blend of organic acid ready to use in personal care formulations   | 3.0 - 4.0 | 55-65°C  | -<br>-                          | +++                     | +++ | ++ | +  |              |
| Novaguard™ CUBP | Capryloyl Glycine, Undecenoyl Glycine, Phenoxyethanol, benzoic Acid        | Liquid | It is a non-toxic preservative for beauty & personal care products, easy-to-use composition for rinse-off, leave-on formulations as well as wet wipes  | 3.0 - 4.0 | 55-65°C  | -<br>-                          | +++                     | +++ | ++ | ++ |              |
| Novaguard™ CU   | Capryloyl Glycine, Undecenoyl Glycine                                      | Powder | "Naturally Derived, Broad spectrum innovative cosmetic preservative Synergistic blend of plant derived lipoamino acids Stable to high temperature, pH and hydrolysis Effective in acidic pH"   | 6         | >100°C   | 1.5% - 1.75%*<br>1.5% - 1.75%** | +++                     | +++ | ++ | ++ |              |
| Novaguard™ MB   | Glyceryl Caprylate, Glyceryl Undecylenate                                  | Liquid | It is an all-natural multi-functional ingredient system for preservative-free and self-preserving cosmetics  | 4 - 8     | > 180 °C | 1.0% - 1.5%*<br>1.0% - 1.5%**   | +++                     | +++ | ++ | ++ |              |
| Novaguard™ BA   | Benzyl Alcohol   | Liquid | BA is a palm oil-free, bacteriostatic preservative. It enables easy handling and prevents the growth of bacteria, yeasts & molds.  | 3.0 - 8.5 | 80°C     | 0.4 - 1.0%*<br>0.4 - 1.0%**     | +++                     | +++ | ++ | ++ |              |
| Novaguard™ DO   | Propylene glycol, Ethylhexylglycerin, Octenidine HCl                       | Liquid | Novaguard DO combines the well-known deodorant and skin care properties of ethylhexylglycerin with the antimicrobial properties of octenidine HCl  | 4 - 8.    | > 150 °C | 0.5- 1.0 %<br>0.5- 1.0 %        | +++                     | +++ | ++ | ++ |              |
| Novaguard™ K803 | Phenoxyethanol, Ethylhexylglycerin, Octenidine HCl                         | Liquid | Novaguard K803 preservative benefits include the strong fungicidal effect, excellent performance in challenging formulations and stability to hydrolysis, temperature and pH Product benefits. | upto 12   | > 100 °C | 0.5- 1.0 %<br>0.5- 1.0 %        | +++                     | +++ | ++ | ++ |              |

Customized blends can be offered against requirements.

# NOVA PRESERV™ Proven effective preservatives for personal care

| Product Name       | INCI Name  | Form   | Description   | Max Temp | pH        | Rec.use level% | Microbiology Efficiency |    |    |    | Applications |
|--------------------|--|--------|---|----------|-----------|----------------|-------------------------|----|----|----|--------------|
|                    |  |        |   |          |           |                | G-                      | G+ | Y  | M  |              |
| Novapreserv™ DMDMH | DMDM Hydantoin   | Liquid | Novapreserv DMDMH has broad spectrum antimicrobial activity. It is water soluble and active at low concentrations.  | > 93°C   | 6.5 - 7.5 | 0.15~0.4%      | ++                      | ++ | ++ | ++ |              |
| Novapreserv™ MP    | Methyl Paraben   | Powder | Novapreserv MP has broad spectrum of activity against bacteria and fungi, Low order of toxicity, Effectiveness at low concentrations, Stability over a broad pH-range, Water-soluble and Biodegradability at environmental concentrations   | < 80°C   | 4.0 – 8.0 | 0.1 – 0.3%*    | 0                       | +  | ++ | ++ |              |
| Novapreserv™ PP    | Propyl Parabens  | Powder | NovaPreserv PP is a broad spectrum antimicrobial agent designed for preservation of a wide range of cosmetics, toiletries and topical pharmaceuticals. This product is freely soluble in most oils, waxes, fatty alcohols, but has relatively low solubility in water / Water-soluble High efficacy | < 80°C   | 4.0 – 8.0 | 0.1 – 0.3%*    | 0                       | +  | ++ | ++ |              |
| Novapreserv™ BP    | Butylparaben   | Powder | NovaPreserv BP acts as a preservative. It displays low irritation potential and have low toxicity level. Butylparaben is active against wide spectrum of fungi and bacteria at low concentrations.  | < 80°C   | 4.0 – 8.0 | 0.1 – 0.3%*    | 0                       | +  | ++ | ++ |              |
| Novapreserv™ EP    | Ethylparaben   | Powder | Novapreserv EP has broad spectrum of activity against bacteria and fungi, Low order of toxicity, Effectiveness at low concentrations, Stability over a broad pH-range, Water-soluble, Biodegradability at environmental concentrations, Global acceptance in personal care applications             | < 80°C   | 4.0 – 8.0 | 0.1 – 0.3%*    | 0                       | +  | ++ | ++ |              |
| Novapreserv™ P2    | Phenoxyethnaol, Methyl Paraben, Ethyl Paraben                            | Liquid | NovaPreserv P2 is a preservative blend for personal care products. It is a liquid version of short-chain parabens. Water soluble, Headspace perservation, Easy to handle and to dose  | < 80°C   | 3 – 8     | 0.25 – 1.2%*   | ++                      | ++ | ++ | ++ |              |
| Novapreserv™ P3    | Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben               | Liquid | Novapreserv P3 is broad spectrum antimicrobial agent comprising a synergistic, blend of esters of para-hydroxybenzoic acid (parabens) in phenoxyethanol designed for preservation of a wide range of cosmetics and toiletries   | < 80°C   | 3 – 8     | 0.25 – 1.0%*   | ++                      | ++ | ++ | ++ |              |
| Novapreserv™ P4    | Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben, Butylparaben | Liquid | Novapreserv P4 has both a low-toxicity profile and displays very low irritation to the skin, it an excellent choice for most types of rinse- off and leave-on personal care product   | < 80°C   | 3 – 8     | 0.25 – 1.0%*   | ++                      | ++ | ++ | ++ |              |



# NOVAPRESERV™ Proven effective preservatives for personal care

| Product Name     | INCI Name   | Form   | Description  | Max Temp  | pH        | Rec.use level%  | Microbiology Efficiency |     |    |    | Applications |
|------------------|---|--------|--|-----------|-----------|-----------------|-------------------------|-----|----|----|--------------|
|                  |   |        |  |           |           |                 | G-                      | G+  | Y  | M  |              |
| Novapreserv™ DPM | Propylene Glycol, Methyl Paraben, Propyl Paraben, Diazolidinyl urea                       | Liquid | Novapreserv DPM is a blend of methyl and propylparaben in propylene glycol, with the added benefit of diazolidinyl urea. The diazolidinyl urea increases the headspace protection of many cosmetic products during storage, while further boosting the broad spectrum antimicrobial activity of the paraben blend. | < 60°C    | 3.0 - 7.5 | 0.3 – 0.7%*     | +                       | ++  | ++ | ++ |              |
| Novapreserv™ B5  | Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben                 | Powder | Novapreserv B5 is an optimized paraben preservative blend for personal care products. Water-soluble and Balanced performance, reely soluble in most oils, waxes, fatty alcohols, but has relatively low solubility in water  | < 80°C    | 4.0 – 8.0 | 0.05-0.3%*      | 0                       | +   | ++ | ++ |              |
| Novapreserv™ PDI | Diazolidinyl Urea, Iodopropynyl Butylcarbamate, Propylene Glycol                          | Liquid | Broad spectrum preservative for emulsions and aqueous formulations.  | 3.0 - 8.0 | -         | -               | ++                      | ++  | +  | +  |              |
| Novapreserv™ PDP | Diazolidinyl Urea, Iodopropynyl Butylcarbamate  | Powder | It is a unique and cost effective preservative system that provides a high level of antimicrobial activity.  | 6.5 - 8.0 | 100°C     | 0.05-0.2%*<br>- | +++                     | +++ | ++ | ++ |              |
| Novapreserv™ P5  | Phenoxyethanol, Methylparaben, Ethylparaben, Propylparaben, Butylparaben, Isobutylparaben | Liquid | NovaPreserv P5 acts as a preservative blend. It has an excellent toxicological profile and is non-irritant to skin, eye & mucous membranes at normal use concentrations  | < 80°C    | 3 – 8     | 0.25 – 1.0%*    | ++                      | ++  | ++ | ++ |              |







# NOVASOLVE™ Emollients for personal care

| Product Name   | INCI Name               | Form   | Description   | Applications   |
|--|-------------------------|--------|---|--|
| Novasolve™ DMI<br>  | Dimethyl Isosorbide     | Liquid | Novasolve DMI is a naturally derived emollient which also enhances the delivery of active ingredients. Novasolve DMI provides good skin penetrating power helping active ingredients or other cosmetic ingredients to pass through the skin membrane, reaching hard-to-reach areas.                                   | Anti- Acne, Skin care, vitamin care, and sunless tanning products.   |
| Novasolve™ HPU<br>   | Heptyl Undecylenate     | Liquid | Novasolve HPU is naturally derived, extremely light and dry emollient. This soft-touch oil is a natural alternative to synthetic fluids such as cyclomethicone and mineral oils. It reduces the greasy feeling of heavier oils, helps prevent transepidermal water loss and maintains visibly smooth, pliable skin.   | Cosmetics, personal care products, skin care products such as skin moisturizer creams, sun protection cream, hair shampoo, face massage cream, natural hair oil, eyeliner, face oil reducing cream |
| Novasolve™ IAL<br>  | Iso Amyl Laurate        | Liquid | Novasolve IAL is a naturally derived emollient with superior volatile properties, making it an ideal "improved" replacement for volatile silicones. By reducing the whitening effect of emulsions and improving their spreadability and tackiness, Novasolve IAL enhances their performance.                          | Conditioner, Emollient, Dispersant   |
| Novasolve™ ININ  | Isononyl Isononanoate   | Liquid | Novasolve ININ is a light feeling emollient which provides smoothness and reduces the white residue. It helps to combine superior performance with a pleasant and dry skin feel.  | Skincare, Haircare, Color Cosmetic, Sun care and Treatment product applications  |
| Novasolve™ EHIN  | Ethylhexyl Isononanoate | Liquid | Novasolve EHIN acts as a thickener, dispersant, solubilizer and emollient. It has non-oily texture and offers good solubilizing property for silicone and good dispersing property for pigments.  | Eye Area Color Cosmetic, Antiperspirants, Depilatories, Facial Cleansers, Facial Color cosmetic, Hair Conditioners, Hand & Body care, and Resin Plasticizer, Fragrance Sprays.                     |
| Novasolve™ DB  | Dibutyl Adipate         | Liquid | Novasolve DB acts as an emollient. It has excellent spreadability on the skin. It gives silky touch. Novasolve DB used in creams and fluid lotions and skin care products.  | skin moisturizers, baby care rinse-off, sun screen agent   |
| Novakare™ PDCC<br>   | Propanediol Dicaprylate | Liquid | It is a dry and silky emollient for modern formulation concepts. It leaves a light, dry, non-oily, smooth and silky skin feeling. It reduces tackiness of formulations. It is an excellent solubilizer for crystalline oil-soluble UV filters and very good wetting and suspending agent for water-insoluble powders. | Creams, lotions, cleansers, makeup removers, facial oils   |
| Novasolve™ MP  | Methyl Pelargonate      | Liquid | Novasolve MP is a colourless liquid with a fruity odour, used in perfumes and flavours, It has a role as an epitope, a fragrance, an antifungal agent, an antinematodal drug and a plant metabolite   | Skin care ( Moisturizer, Body Lotions, Face mask and Creams ) , Deodorants   |
| Novasolve™ EP<br>  | Ethyl Pelargonate       | Liquid | Novasolve EP is naturally derived fatty acid ethyl ester of nonanoic acid. It has a role as a metabolite. It is functionally related to a nonanoic acid. It acts as hair conditioning agent, Plasticizer  | Haircare, Perfuming agents and Skin conditioning   |

## NOVASOLVE™ Emollients for personal care

| Product Name   | INCI Name              | Form   | Description  | Applications  |
|--|------------------------|--------|--|---|
| Novasolve™ ID<br>  | Isosorbide Dicaprylate | Liquid | Novasolve ID is a smart, oil-loving skin hydrator and barrier builder molecule. It works synergistically with glycerin. It helps in reducing fine lines and improves skin appearance. It is highly miscible with a wide range of hydrophobic emollients and solubilizers | Anti-aging, Daily moisturizer, Sunscreen, Self-tanning, Lip product |
| Novasolve™ OO  | Octyl Octanoate        | Liquid | Novasolve OO acts as a lubricant on the skin's surface to give it a soft, smooth appearance. It has excellent compatibility with pigments and is best suited for colour cosmetics as an emollient cum colour dispersant. It also functions as hair conditioning agents.  | Skin care , Flavors and Fragrances                                  |
| Novasolve™ IML<br> | Isosorbide Monolaurate | Liquid | Novasolve IML in a cosmetic composition for improving the sensory impression brought about by the cosmetic composition when applied to human skin or hair, preferably when applied to human skin   | Emulsifier, Skin conditioner, and Emollient in cosmetics            |

# NOVAKARE™ Active ingredients for personal care

| Product Name  | INCI Name                     | Form   | Description   | Applications  |
|---|-------------------------------|--------|---|---|
| Novakare™ PO  | Piroctone Olamine             | Powder | Novakare PO is one of the most efficient anti-dandruff actives available on the market today. Novakare PO possesses sterilization and deodorization effects. It shows broad-spectrum killing effect on fungus & molds.  | Creams, lotions, rinses, shampoo & conditioners   |
| Novakare™ LL<br>  | Lauroyl Lysine                | Powder | Novakare LL amino acid based functional powder which gives a very smooth, soft, and silky feel making an ideal ingredient for cosmetic products   | Foundation, Lipstick, Hair Brushing Lotions, Makeup, Creams, Hair Shampoo Conditioners  |
| Novakare™ PAD<br>  | Potassium Azeloyl Diglycinate | Liquid | NovaKare PAD is a skin lightener, an anti-acne, whitening, moisturizer & sebum controlling agent. It provides improved skin elasticity.   | Decorative cosmetics/Make-up<br>Hair care (Shampoos, Conditioners & Styling)<br>Skin care (Facial care, Facial cleansing, Body care, Baby care) |
| Novakare™ UPA<br>   | Undecylenoyl Phenylalanine    | Powder | Novakare UPA is a compound that includes amino acids and lipid residue, used in cosmetics and personal care products, specifically whitening formulas, to prevent skin cells from producing melanin pigmentation.   | All kinds of skin-lightening products including lotions, creams, fluids, makeup products  |
| Novakare™ CSA<br>   | Capryloyl Salicylic Acid      | Powder | NovaKare CSA acts as an exfoliant, an antimicrobial, an anti-comedonic and as an anti-inflammatory agent. It acts as an anti-aging, anti-wrinkle and anti-acne agent and effective whitener/lightener for skincare.   | Skin care (Facial care, Facial cleansing, Body care, Baby care) , Facial care , Moisturizing products (creams & lotions)                        |
| Novakare™ DPHP<br>  | Dipalmitoyl Hydroxyproline    | Powder | Novakare DPHP is a natural product of palmitoyl and amino acid, hydroxyproline. It is an anti-aging active. Promotes collagen and elastin production and inhibits free-radical activity. Its anti-wrinkle property and high moisturizing efficiency is proved through human trials. | Anti-aging, anti-wrinkle & anti-stretch mark creams & lotions, firming /toning products, moisturizing and lip treatment formulations            |



# NOVAPHENE

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