

N2S™ Nail Care

The development, anatomy and ultra structure of the nail apparatus, as well as the biochemical, biophysical and growth characteristics of the nail plate are well defined. Despite the long, respectable tradition of nail research, namely in the diagnosis and management of nail diseases, our current knowledge of the underlying molecular controls of nail development and growth is still quite poor. It is difficult to obtain nail-producing tissues and to grow nails and / or nail matrix, keratinocytes in culture¹.

The nail is composed of five parts. The nail plate (visible part); nail bed underneath (invisible part); Lunula (base of the nail where the nail cells start to grow); nail fold (protects the birthplace of the nail); and, the cuticle (which is the prolongation of the nail fold formed by dead cells).

The nail plate can be viewed as equivalent to the epidermal stratum corneum, but it has a very firm attachment to the nail bed and it does not exfoliate. These are mainly composed of keratins, or proteins. Further constituents of the nail plate are water, lipids and trace elements (mainly iron, zinc and calcium).

Quite contrary to popular belief, the latter do not influence the hardness of the nail. In contrast to the stratum corneum of the epidermis, which has a fat content of 10%, the total fat content of the nail varies between 0.1% and 5%, with cholesterol, as the main lipid constituent. The water content of the nail varies between 7% and 18%, and is thus lower than that of the epidermis (15-25%)¹.

A water content below these values results in brittle nails. Despite its hardness and quite contrary to what one might expect, the nail plate is about 1000-fold more permeable to water than the skin².

Clean and well-maintained nails are the result of good hygiene and proper care. Nails are appendages of the skin. Their purpose is to protect the tips of the fingers and toes. Composed of keratin, the nail plate does not contain any nerves or blood vessels and therefore, it is insensitive.

Nails continue to grow throughout your life. The shape, length, and width of nails vary greatly between finger and toenails from one person to another. One of the most important parts of the nail is the cuticle. It seals the skin to the nail, preventing the penetration of microorganisms that can cause infection between the tissues.

In turn, this section is comprised of products to keep nails healthy and have superb appearance, as well as treating visible disorders associated with weak nails, cracked nails, dry cuticles, cracked skin, even psoriasis and eczema as they relate to nail disorders.

Products

- N2S™ Advanced Callus Reducer
- N2S™ Cuticle & Nail Conditioner
- N2S™ Protectant
- N2S™ Salve
- N2S™ Antibacterial Cleanser
- N2S™ Foot Polish
- N2S™ Pedi Peel
- N2S™ Professional Massage Lotion
- N2S™ Silky Nail Soak

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1. Picardo, M, Tosti A, Marchese C, et al. Characterization of cultured nail matrix cells. J Am Acad Dermatology 1994; 30:434-40
 2. Dawber RPR, de Berker DAR, Baran R. Science of the nail apparatus. In: Baran R, Dawber RPR, de Berker DAR, et al (eds). Diseases of the Nails and their Management. Oxford: Blackwell Science, 2001:1-47.
 3. Walters, KA, Flynn GL, Marvel JR. Physicochemical Characterization of the human nail. J Invest Dermatology. 1981; 76:76-9.

N2S™ Advanced Callus Reducer

Indications

- To soften hard, brittle and thickened skin.
- To eliminate calluses.
- To improve skin tone and texture.

Key Features

- Improves moisture levels in the skin.
- Gently exfoliates hardened skin.
- Conditions hands, feet, elbows and knees.
- Daily usage will create dramatic improvement within three weeks.
- Will not stain or damage hosiery.
- Once calluses or problems are eliminated, use once a week for maintenance.

Directions

Nail treatment

- Apply a light and even coat, 1 drop, for each nail.
- Dry 3 – 5 minutes before beginning any activity.
- Use twice a day.
- If using with medications, apply Advanced Callus Reducer first. After drying, medication may be applied.

Hands, Feet, Elbows and Knees

- Apply liberally to clean skin.
- Dry 3 – 5 minutes before covering with applicable clothing.
- Use twice a day.

Warning

- This should not be used on Psoriasis, Eczema, a diabetic patient with open lesions, or a cancer patient undergoing chemotherapy treatments.
- For external use only. Avoid direct contact with eyes and mucous membranes.
- Do not apply to open or abraded skin. Use our N2S™ Salve for this problem.
- Keep out of reach of small children.
- Wash hands after application. If you wear contact lenses, wash hands thoroughly prior to touching lenses.
- If irritation occurs, discontinue use.

Item/Package details

Sizes	Item	Bottle	pH	Shelf Life
1.0 oz/28.57 ml	71021	Airless pump	3.9	3 years

CATEGORY: Nails PRODUCT: N2S™ Advanced Callus Reducer						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	May be used on hands, feet, elbows, knees and nails, twice daily.					

Ingredients

Water, SD Alcohol 40, Glycolic Acid, Ammonium Hydroxide, Propylene Glycol, Polyquaternium 10, Tetrasodium EDTA.

Q & A

Q. I have cracked skin on my heels, will this help?

A. We do not recommend this for cracked skin. You should use N2S™ Salve, which was developed specifically for cracked skin and ulceration. Once this is treated, you can use Advanced Callus Reducer to improve the tone and texture of the skin.

Q. How does this help encrusted nails?

A. Thickened encrusted nails are due to a fungus. Although this product is not anti-fungal, it does help to soften the tissue and the nail bed. This is critical in helping medications penetrate. Most medications are either ointments and typically cannot penetrate this area or they are solutions with no vehicle to get them deep into the problem area. By properly treating the thickened encrusted nail bed, you can get greater efficacy from your medication.

N2S™ Cuticle & Nail Conditioner

Indications

- To help condition texture and dryness of nails.
- Helps the appearance of dry cuticles.
- Gently exfoliates the dry skin.
- Improves thickness of nails.

Key Features

- Improves moisture levels in the skin.
- Gently exfoliates hardened, cracked and dry skin.
- Softens skin as it improves textures.
- Conditions the nail bed.
- Use twice daily for treatment until conditions improve and then once every other day for maintenance.
- Will not stain or damage clothing

Directions

- *Should not be used during a manicure or pedicure treatment. Recommended for home maintenance.*
- Wash hands and/or feet.
- Towel dry.
- Apply a light and even coat over the entire nail and cuticle area and leave on.

Warning

- For external use only.
- Do not apply to open or abraded skin. (Use N2S™ Salve.)
- Keep out of reach of small children.
- Avoid contact with eyes and mucous membranes.
- Wash hands after application.
- If you wear contact lenses, wash hands thoroughly prior to touching lenses.
- If irritation occurs, discontinue use.

Item/Package Details

Sizes	Item	Bottle	pH	Shelf Life
0.5 oz/14.2 gm	71050	Airless pump	3.9	3 years

CATEGORY: Nails PRODUCT: N2S™ Cuticle & Nail Conditioner						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	One to two times daily.					

Ingredients

Water, Glycolic Acid, Caprylic/Capric Triglyceride, Isopropyl Palmitate, Propylene Glycol, Stearic Acid, Glyceryl Stearate, PEG-100 Stearate, Cholesterol, PEG-20 Methyl Glucose Sesquisteate, Ammonium Hydroxide, Isostearic Acid, Sorbitan Stearate, Menthyl Glucose Sesquisteate, Lanolin Alcohol, Stearamidopropyl Dimethylamine, Dimethicone, Xanthan Gum, Magnesium Aluminum Silicate, Tetrasodium EDTA, BHT.

N2S™ Protectant (OTC)

Indications

- For treatment of severe cases of dry skin, Eczema, brittle nails, split tips, Xerosis and severe dryness associated with Psoriasis.

Key Features

- Only requires a small amount to treat an area.
- An effective hand and foot moisturizer.
- Excellent skin absorption.
- Contains emollients.
- Use 3 - 4 times daily and at bedtime.

Directions

- Rinse and leave feet slightly wet.
- Gently rub a small amount of cream over affected areas 3 - 4 times daily and at bedtime.
- For maximum benefits without excessive greasiness, dampen feet and massage in a very small amount of cream.
- Repeat process.
- May be used 3 - 4 times daily and at bedtime.

Warning

- For external use only.
- Keep out of reach of small children.
- Avoid contact with eyes.
- If irritation develops, discontinue use.

Item/Package Details

Sizes	Item	Bottle	pH	Shelf Life
2.0 oz/57.00 gm	71000	Glass Jar w/ Silver Cap	6.4	36 months

Ingredient

Active: Allantoin 0.2%; Other: Purified Water, Liquid Petrolatum, Extract of Lanolin Alcohol, Mineral Wax, Acetylated Lanolin, Beeswax, Isopropyl Myristate, Parabens, Fragrance.

N2S™ Salve (OTC)

Originally, it was thought that Vitamin E in a specific ratio with Salicylic Acid would produce both antioxidant and Keratoplastic activity. Theoretically, this would create an increase in fibroblastic motility thereby creating a faster, more pronounced proliferation of new epithelial cells, as well as spurring a more rapid production of tropo-collagen. This is now a proven entity.

More importantly, in the presence of this compound an additional finding was the *in situ* increase in endogenous zinc in the wound. Zinc, of course, is a well-known healing agent.

Indications

- To create a semi-occlusive coating to allow the skin to respire, preventing further maceration while resisting exogenous infiltrates.
- To afford significant healing levels in a controlled release mechanism with the ability to suspend, and then deliver, actives to cracks, fissures and denuded skin.

Key Features

- Extremely soothing on the skin.
- Contains key ingredients that work synergistically.
- Semi-occlusive wound dressing to allow skin respiration.
- Prevents further maceration.
- Ameliorates the healing process.
- Recommended for Eczema patients
- Helps soften dry scaly skin patches.
- Treats fissured and callused skin.
- Utilizes insecticide-free Anhydrous Lanolin.
- Contains Peruvian Balsam.

Directions

- Cleanse area then blot dry.
- Apply a thin layer of N2S™ Salve as often as necessary.
- Keep injured area filled with N2S™ Salve until healing is complete.
- Cover area with bandage or gauze to protect clothes from staining.

Warning

- Use as often as necessary.
- Keep out of eyes. Keep away from small children.

Item/Package Details

Sizes	Item	Bottle	pH	Shelf Life
2.0 oz/57.00 gm	71072	Glass Jar w/ Silver Cap		

Ingredients

A specially prepared base of Petrolatum and Anhydrous Lanolin, d-l Alpha Tocopherol Acetate USP, Cetyl Esters Wax NF, Benzyl Cinnamate, Aldehyde C16, and Salicylic Acid USP.

N2S™ Antibacterial Cleanser (OTC)

Back bar only

Indications

- To promote cleanliness by allowing regular and continuous cleansing without drying the skin.
- To kill germs including E.coli, Pseudomonas, and Staph, which cause can infections.

Key Features

- Eliminates fungal contamination and 15 different bacteria.
- Benzethonium Chloride (maximum strength) disrupts bacterial growth and forces it to destroy itself.
- Formulation improves the permeability of agents into the skin. This action causes improved efficacy to kill bacteria within the skin and to remove debris.
- Offers immediate sanitation. No waiting for active ingredients to become effective.
- A non-drying cleanser that leaves no residue or sticky after-effect.
- Skin conditioning and healing agents leave your skin feeling smooth and soft.
- Designed for continuous use.
- Highly recommended for any client with an open cut, burn or wound.
- Personal use by skin, hair and nail care professionals.
- Excellent hand, nail and foot cleanser for proper hygiene and treatments.
- Safe to use on Eczema or Psoriasis.

Directions

- Wet hands and other areas to be treated.
- Place a small amount into your hands and work into lather.
- Apply lather on areas to be treated with gentle, circular motion. Rinse clean.
- Use as often as necessary.

Warning

- External use only.
- Do not use in eyes.
- In case of deep wounds or puncture wounds, consult a physician.
- If irritation develops and persists for more than a few days, discontinue use and consult a physician.
- Do not leave on skin for more than one minute without rinsing.

Item/Package Details

Sizes	Item	Bottle	pH	Shelf Life
32.0 oz/946.20 ml	71091	Evolution Bottle w/ Pump	5.4	36 months

CATEGORY: Nails PRODUCT: N2S™ Antibacterial Cleanser						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	Supply lasts depends on frequency of usage.					

Ingredients

Active: *Benzethonium Chloride (0.2%)* Other Ingredients: Purified Water, Ammonium Lauryl Sulfate, Disodium Laureth Sulfosuccinate, Ammonium Chloride, Sodium Chloride, Lauric Diethanolamide, Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben, Citric Acid.

Q & A

- Q.** *Why is this product more effective than other products in killing germs and bacteria?*
- A.** Most antibacterial soaps contain Triclosan or Ethyl Alcohol. Triclosan is not FDA approved as an antiseptic for first aid use because it is not effective in killing germs and bacteria. N2S™ Antibacterial Cleanser contains Benzethonium Chloride, which is approved by the FDA and is the strongest antibacterial agent for a kill rate of 99.999%; Ethyl Alcohol is extremely drying and can irritate the skin and eventually cause infection. Companies do not typically tell you what bacteria are being killed.

N2S™ Foot Polish

Back bar only

Indications

- Creates epidermal resurfacing to remove dead and listless cells.
- Reduces signs of accelerated aging of the skin caused by sun, tanning and environmental effects.
- Improves softness and texture of the skin.

Key Features

- Remarkably efficient for deep exfoliation.
- Extremely gentle base.
- May be used 3x per week.
- Easy to use in treatment rooms.
- Leaves the skin feeling smoother, softer and more radiant.
- Silica (microscopic spheres) and Jojoba Ester (micro beads) combine to exfoliate and polish without being abrasive.
- Loosens ingrown hairs.
- Color is a non-toxic vegetable dye.

Directions

- Wear gloves when using on a daily or regular basis.
- Apply modest amount of N2S™ Foot Polish to damp skin.
- Massage lightly in an upward circular motion to each foot for up to three minutes. You can adjust the pressure on massage according to the skin type and the degree of sensitivity.
- Rinse completely with tepid water making certain to remove all traces of N2S™ Foot Polish. Pat dry.
- For best results, first soak with our Silky Nail Soak for 15 minutes.

Warning

- For external use only.
- Keep out of reach of small children.
- A mild transient tingling may occur for a few minutes in people with sensitive skin. This is normal.
- If irritation develops and continues, discontinue use.
- Do not apply this product to open or abraded skin
- Not recommended for diabetics with foot ulcerations or open lesions or cancer patients undergoing chemotherapy.

Item/Package Details

Sizes	Item	Bottle	pH	Shelf Life
4.0 oz/114.00 gm	71034	HDPE, white	6.0	3 years
16.0 oz/453.59 gm	71043			

CATEGORY: Nails PRODUCT: N2S™ Foot Polish						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	One Tablespoon for both feet.					

Ingredients

Purified Water, Silicone Dioxide Spheres, Propylene Glycol, Cetyl/Stearyl Alcohol, Partially Hydrogenated Jojoba Oil, Sodium Lauryl Sulfate, Triethanolamine, Carbomer, Diazolidinyl Urea, Methylparaben, Propylparaben, Ultramarine Blue Dye.

N2S™—Pedi Peel

AHA / Glycolic Acid 30%, pH 2.5

Back bar only

Indications

- A catalyst for skin rejuvenation.
- To stimulate the production of collagen and fibril tissue.
- To rapidly exfoliate superficial skin problems including but not limited to: Dry skin, Creases, Discoloration, Scarring, tone and texture

Key Features

- Powerful and effective means of skin rejuvenation.
- Easy to apply and control.
- Easy to watch the skin for changes in hue during application.
- Excellent catalyst to improve home maintenance program.
- Treatment takes a few minutes.
- Overall procedure can be performed in 12 – 15 minutes.

Directions

- Protocol sent separately with every bottle.
- Must be read and understood; call with any questions.

Warning

- You must adhere to the protocol without exceptions.
- For external use only.
- Keep out of reach of small children.
- Do not use more than once a month on a client.
- Olive to darker complexions can develop hypo pigmentation or hyper pigmentation.
- If irritation develops, discontinue use.
- *Special Note: You must be a licensed cosmetologist to order this product. We must have a copy of your license on file.*

Item/Package Details

Size	Item	Bottle	pH	Shelf Life
4.0 oz/118.5 ml	71014	Evolution Bottle w/Flip Disc	2.5	36 months

CATEGORY: Nails PRODUCT: N2S™ PediPeel						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	See instruction leaflet with bottle; approximately 50 treatments in 1 bottle for feet or hands.					

Ingredients

Purified Water, Glycolic Acid, Sodium Carbonate

Protocol comes with every bottle purchased.

N2S™ Professional Massage Lotion

Back bar only

Indications

- Offers soothing relief from minor scrapes, chafed and severely dry skin.
- Will significantly help rough, cracked and flaking skin.
- Excellent on sensitive and irritated skin.
- Will re-moisturize deep tissue

Key Features

- Enhanced with purified Emu Oil, which has tremendous capabilities including the transport of bio-active compounds into the skin and the acceleration of skin healing properties.
- Grease-less.
- Extremely mild on the skin.
- Absorbed rapidly into the skin, while it penetrates the epidermis
- Highly effective moisturizing capability and skin remains moist longer than with traditional moisturizers.
- Small amount needed to fulfill your needs.
- 5% Emu Oil as its base.
- Aloe Vera Concentrate helps to soothe and heal the skin, is highly purified and 200x the strength of Aloe Vera Gel.
- Glycerin is a highly potent humectant to offer excellent moisture drawing capabilities.
- Leaves skin smooth and soft for days.
- Sheer, lightweight body lotion.
- Use on hands, feet and entire body.
- Fragrance-free.
- Helps to heal the skin.
- Reduces inflammation and irritation.
- Excellent prophylactic before braving the elements.
- Superb on post -traumatized tissue.

Directions

- Apply any time, as needed.
- Prior to a massage, heat in a microwave for 30 seconds with cap open (full bottle).
- Use prior to going outdoors during inclement conditions.

Warning

- External Use Only.
- Keep out of reach from small children.
- Avoid direct contact with the eyes.
- If irritation develops, discontinue use.
- We recommend that you contact a dermatologist before using this item on diseases of the skin.

Item/Package details

Sizes	Item	Bottle	pH	Shelf Life
32.0 oz/946.20 ml	70188	Evolution Bottle w/Pump	N/A	36 months

CATEGORY: Nails PRODUCT: N2S™ Professional Massage Lotion						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	Supply lasts depending on frequency of usage.					

Ingredients

Aloe Vera, Dioctyl Adipate, Purified Emu Oil, Dimethicone, Polyacrylamide, Lyreth-7, Propylene Glycol, Benzyl Alcohol, Glycerin, C13-14 Isoparaffin, Diazolidinyl Urea, Vitamin E Acetate, Methylparaben, Propylparaben and TBHQ (Antioxidant).

N2S™ Silky Nail Soak

Back bar only

Indications

- To help condition and heal the skin with vitamins.
- To soften and moisturize the skin.

Key Features

- Improves moisture levels in the skin.
- Aloe Vera and Vitamin A heal the skin.
- Vitamin B Complex conditions the skin.
- Vitamin E doubles as an antioxidant and moisturizer.
- Perfect for cleansing and conditioning.
- Will not strip or dry the skin.

Directions

- Shake well.
- Fill a bowl (manicure) or foot basin (pedicure) with warm water.
- Add ½ ounce of Silky Nail Soak per gallon of water.
- Soak nails for 10 to 15 minutes or until water cools.
- Massage gently to liquefy and remove dirt, oil and other impurities.
- Rinse thoroughly and pat dry.
- For best results massage with N2S™ Foot Polish

Item/Package details

Sizes	Item	Bottle	pH	Shelf Life
32.0 oz/946.20 ml	71045	Evolution Bottle w/Pump	7.2	24 months
1 gal/3.76 L	71043			

CATEGORY: Nails PRODUCT: N2S™ Silky Nail Soak						
Skin Type	Sensitive	Dry/Mature	Normal	Combination	Oily	Acne
	√	√	√	√	√	√
Nails	Supply lasts depends on frequency of usage.					

Ingredients

Aloe Vera, Water, Sodium Lauryl Sulfate, Lauramide DEA, Disodium Olemido Sulfocinnate, Glycol Distearate and Steareth-4, Hydrolyzed Collagen, Retinyl Palmitate (Vitamin A), Aloe Vera Oil, Propylene Glycol, Diazolidinyl Urea, Methylparaben, Propylparaben, Vitamin E Acetate.