



nanokeratin®  
SYSTEM

# Refortify®

MSDS

2

Nanosmooth Pure - Refortify Smoother

# Material Safety Data Sheet

Manufacture	Brand	Group
 <p>nanokeratin<sup>®</sup> SYSTEM</p> <p>Laboratories</p>	<p>Refortify<sup>®</sup></p>	<p>Smoother</p>
<p>MSDS Date Nov 29, 2017</p>	<p>Version 2.0</p>	<p>MSDS Number 01-003</p>

## Product Name

Nanosmooth Pure - Refortify Smoother

Responsible Person:	Sharon Segev Isolatorweg 51 1014 AS Amsterdam Netherlands
Telephone	Tel. 44.203.026.0240
Office in USA	Nanokeratin System Inc. 9629 Owensmouth Avenue Unit 1 Chatsworth CA 91311 USA
Telephone	Tel. 1.646.6631333 / 1.323.3188686
Office in Israel	NKS Laboratories Ltd. HaPlada 27, Ashdod 7752400 Israel
Telephone	Tel. +972-3-5299349

## SECTION 1: PRODUCT IDENTIFICATION

**PRODUCT NAME:** NanoSmooth Pure Refortify Smoothers

Recommendations on use: Rinse-off Hair Care/ Treatment: For Use by Professionals Only.

## SECTION 2: HAZARDS IDENTIFICATION

It is a creamy, semi- viscous liquid with characteristic odor.

This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). In case of eye contact, rinse immediately with water. For external use only. Keep out of reach of children. Use only as directed.

### WARNING! MAY CAUSE SKIN IRRITATION

#### HAZARD STATEMENTS (H):

**H315** – Causes skin irritation.

**H319** – Causes serious eye irritation.



#### PRECAUTIONARY STATEMENTS (P):

**P201**– Obtain special instructions before use.

**P202**– Do not handle until all safety precautions have been read and understood.

**P280**– Wear protective gloves/protective Clothing /eye protection/ face protection.

**P281**– Use personal protective equipment as required.

**P302+P352**– IF ON SKIN: Wash with soap and water.

**P333+P313** – If skin irritation or a rash occurs: Get medical advice/attention.

#### ROUTES OF ENTRY:

Inhalation: NO

Absorption: YES

Ingestion: YES

#### Effects of Exposure:

**INGESTION:** If product is swallowed, may cause nausea, vomiting and/or diarrhea.

**EYES:** Direct contact may cause mild irritation. Symptoms of overexposure may include redness, itching, irritation and watering.

**SKIN:** May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.

**INHALATION:** None expected.

#### Symptoms of Overexposure:

Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product may cause an allergic skin reaction (e.g., rashes, welts, dermatitis) in some sensitive individuals.

**Acute Health Effects:**

Moderate irritation to eyes. Moderate irritation to skin near affected areas.

**Chronic Health Effects:**

No harmful or chronic health effects are expected to occur from a single accidental ingestion.

**Target Organs:** Skin, Eyes.

**SECTION 3: HAZARDS IDENTIFICATION**

INGREDIENT:	CAS NO.	% WT
Oxoethanoic acid	298-12-4	10-20%

**SECTION 4: FIRST AID MEASURES**

**INGESTION:** DO NOT INDUCE VOMITING. Contact the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

**EYES:** If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek medical attention.

**SKIN:** Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.

**INHALATION:** Remove victim to fresh air at once.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Pre-existing dermatitis, other skin conditions, and pre-existing skin or eye disorders. Do not use on broken skin or irritated areas.

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARDS	0
PROTECTIVE EQUIPMENT	C
EYES	SKIN

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** This product is not flammable.

**EXTINGUISHING MEDIA:** All standard extinguishing agents are suitable: Carbon dioxide, dry chemical, foam and/or water spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product is not a flammable liquid.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Known.

## SECTION 6: ACCIDENTAL RELEASE MEASURE

**ACCIDENTAL RELEASE MEASURES:** Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.

**For small spills** (e.g., < 1 gallon (3.785 liters)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.

**For large spills** (e.g.,  $\geq$  1 gallon (3.785 liters)), deny entry to all unprotected individuals. Don appropriate personal protective equipment (e.g., goggles, gloves, aprons, and respirator). Dike and contain spill with inert material (e.g., sand or earth). Transfer product to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

## SECTION 7: HANDLING AND STORAGE

**WORK AND HYGIENE PRACTICES:** Do not eat, drink, or smoke while handling this product.

**STORAGE & HANDLING:** Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation is preferred, fans, open doors and windows). Do not store in damaged or unmarked containers or storage devices. Keep containers securely closed when not in use.

**SPECIAL PRECAUTIONS:** Spilled material may present a slipping hazard if left unattended. Clean all spills promptly.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION AND ENGINEERING CONTROLS:** None required under normal conditions of use. Use with adequate ventilation (e.g., open doors and windows, local exhaust ventilation) and ensure appropriate emergency equipment is available (e.g., sink, safety shower, eye-wash station) when handling large quantities of this product ( $\geq$  1 gallon (3.785 L)).

**RESPIRATORY PROTECTION:** None required under normal conditions of use.

**EYE PROTECTION:** Avoid eye contact. Safety glasses with side shields should be used when handling large quantities (e.g.,  $\geq$  1 gallon) of this product.

**HAND PROTECTION:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**BODY PROTECTION:** Wear appropriate protective gloves and clothing to prevent skin exposure. When handling large quantities (e.g.,  $\geq 1$  gallon (3.785liters)), eye wash stations and deluge showers should be available.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are clean and dry.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear to translucent, semi- viscous liquid with pleasant odor.

**PHYSICAL STATE:** Creamy, semi- viscous liquid with characteristic odor.

**BOILING POINT:** F: > 212 C: > 100 at 1.013 hPa

**MELTING POINT:** N/A

**FREEZING POINT:** F: > 23 C: > -5

**VAPOR PRESSURE (mmHg): @** F: N/A C: <1hPa

**VAPOR DENSITY (AIR = 1):** F: N/A C: N/A

**SPECIFIC GRAVITY (H2O = 1):** F: N/A C: N/A

**EVAPORATION RATE (Butyl Acetate=1):** ~1

**SOLUBILITY IN WATER:** Partly soluble

**DENSITY:** ~1 g/(cm)<sup>3</sup>

**pH:** 1.2-1.6

**FLAMMABLE LIMITS IN AIR (% BY VOLUME):** N/A

**FLASH POINT:** F: N/A C: N/A **METHOD USED:** Closed Cup

**AUTOIGNITION TEMPRATURE:** F: N/A C: N/A

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Material is stable when stored in a cool dry location out of direct sunlight and away from other sources of heat.

**CONDITIONS TO AVOID (STABILITY):** Open flames, sparks, high heat, direct sunlight and close proximity to incompatible substances.

**INCOMPATIBILITY (MATERIAL TO AVOID):** High temperatures, sources of heat and direct sunlight.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxides of carbon (CO, CO<sub>2</sub>) and sulfur (SO<sub>2</sub>).

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID :** Open flames, sparks, high heat, direct sunlight and close proximity to incompatible substances.

## SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** This product has not been tested on animals to obtain toxicological data. Toxicology data for specific components of this product are found in scientific literature but are not presented in this document.

**ACUTE TOXICITY:** See section 2.

**CHRONIC TOXICITY:** See section 2.

**CARCINOGENICITY:** None

**REPRODUCTIVE TOXICITY:** This product is not reported to produce reproductive toxicity in humans.

**EMBRYOTOXICITY:** This product is not reported to produce embryotoxic effects in humans.

**TERATOGENICITY:** This product is not reported to produce teratogenic effects in humans.

**MUTAGENICITY:** This product is not reported to produce mutagenic effects in humans.

**IRRITANCY OF PRODUCT:** See section 2.

**PHYSICIAN RECOMMENDATIONS:** Treat Symptomatically

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL STABILITY:** There is no specific data available for this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of waste and residues in a safe manner, in accordance with local/ national regulations. Acceptable methods of disposal include incineration and shredding for finished products/ bulk material.

**RCRA HAZARD CLASS:** Not Regulated. Follow all local governmental requirements intended for disposal.



nanokeratin.

S Y S T E M

LABORATORIES

## SECTION 14: TRANSPORT INFORMATION

The product is not classified as dangerous goods for transport, according to the international regulation of the transport of dangerous goods (ADR/RID, IMDG and IATA-DGR).

### **U.S. DEPARTMENT OF TRANSPORTATION**

**In Consumer Packaging:** Not regulated.

**Other Than Consumer Packaging:** Not regulated.

### **WATER TRANSPORTATION**

**In Consumer Packaging:** Not regulated.

**Other Than Consumer Packaging:** Not regulated.

### **AIR TRANSPORTATION**

**In Consumer Packaging:** Not regulated.

**Other Than Consumer Packaging:** Not regulated.

## SECTION 15: REGULATORY INFORMATION

**U.S. EPA SARA REPORTING REQUIREMENTS:** NOT REGULATED

**U.S. EPA SARA THRESHOLD PLANNING QUANTITY:** NOT REGULATED

**TSCA INVENTORY STATUS:** NOT REGULATED

**U.S. EPA CERCLA REPORTABLE QUANTITY (RQ):** NOT REGULATED

**OTHER U.S. FEDERAL REQUIREMENTS:** This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).

## SECTION 16: OTHER INFORMATION

**PREPARATION INFORMATION:** This document is the first version of the MSDS documentation.

**OTHER INFORMATION:** Do not ingest. If swallowed, do not induce vomiting; seek medical attention. Avoid eye contact. Keep out of reach of children. If redness or other signs of adverse reaction occur, discontinue use immediately. If irritation persists, seek medical attention. FOR PROFESSIONAL USE ONLY.

**DISCLAIMER:** This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of NANOKERATIN SYSTEM'S knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

**PREPARED BY:** Anna Molochnikov/ Amir Segev





nanokeratin®  
SYSTEM

Refortify®

[www.nanokertainsystem.com](http://www.nanokertainsystem.com)