



nanokeratin®  
SYSTEM


# Refortify®

MSDS

01

Refortify Shampoo

# Material Safety Data Sheet

Manufacture	Brand	Group
 nanokeratin® SYSTEM  Laboratories	Refortify®	Shampoo
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## Product Name

Refortify®

Refortify Shampoo

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## SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Refortify Shampoo

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

**CAUTION:** Avoid contacts with eyes and prolonged contact with skin. For external use only. Use only as directed. Keep out of reach of children. Discontinue use if rash, redness or itching occurs.

Refer to product insert or container for additional use warnings.

## SECTION 2: HAZARDS IDENTIFICATION

Slightly Transparent, semi- viscous gel with pleasant odor.

### POTENTIAL HEALTH EFFECTS:

May cause eye irritation. Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

**OSHA** Eye Irritant; **DOT** Not Regulated; **WHMIS** Eye Irritant; See section fifteen of this document (Regulatory Information).

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	CAS NO.	% WT
Phenoxyethanol	122-99-6	0.1-1.0

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush with warm water for fifteen minutes and get medical attention if irritation persists.

**SKIN:** Immediately flush with warm water and get medical attention if irritation persists.

**INGESTION:** If swallowed, DO NOT induce vomiting. drink one or two glasses of water or milk, consult a physician.

**INHALATION:** Move to fresh air. If irritation symptoms persist, get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Most common symptoms include irritating properties to eyes, skin and/or exposed mucous membranes.

## SECTION 5: FIRE-FIGHTING MEASURES

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Fires involving bulk product may be extinguished with carbon dioxide, dry chemical and/or foam. Water spray may be used to soak corrugated shipping containers of finished product if involved in a fire. Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None; however, observe usual precautions for handling of flammable liquids. For manufacturing, minimize airborne vapor levels through engineering controls.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

## SECTION 6: ACCIDENTAL RELEASE MEASURE

**ACCIDENTAL RELEASE MEASURES:** Eliminate all source of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other absorbants. Containerize spent absorbants in UN specification drums for disposal. Wash spill area with detergent solution as necessary. Sweep up to prevent slipping hazard.

**PERSONAL PROTECTIVE EQUIPMENT:** Plastic or rubber gloves, eye protection, and apron may be required for clean-up of large spills. For large spills, wear an approved self-contained breathing apparatus.

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Avoid contact with eyes and prolonged contact with skin (other than areas of application). Do not inhale or ingest. Store away from possible source of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid. Keep containers tightly closed in a dry, cool and well-ventilated place.

**OTHER PRECAUTIONS:** Keep away from heat and flames. For external use only. Use only as directed.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** None generally required. For handling large quantities of material, such as in the manufacturing of product, ventilation should be utilized to control nuisance odors associated with product fragrance.

**VENTILATION:** General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

**RESPIRATORY PROTECTION:** Respiratory protection is not required for product use. For manufacturing of product, respiratory protection may be considered. Ensure that the respirator meets current local occupational health and safety standards.

**EYE PROTECTION:** None required for product use. For handling large quantities of material, safety glasses with side shields/ goggles are recommended.

**SKIN PROTECTION:** None required for product use. For handling large quantities of material, such as in product manufacturing, plastic or rubber gloves should also be considered for use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None required for product use. Tyvek clothing may also be suitable for handling large quantities of material.

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

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Brownish semi viscous gel with pleasant odor.

**PHYSICAL STATE:** Slightly Transparent, semi- viscous gel.

**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:** Insoluble

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

**pH:** 6.0-7.5

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

**FLASH POINT:** F: >200 C: >93 **METHOD USED:** Closed Cup

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

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Material is stable.

**CONDITIONS TO AVOID (STABILITY):** No dangerous reaction if used as recommended. Avoid heat, fire and other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** None Known.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No decomposition if stored and applied as directed.

**HAZARDOUS POLYMERIZATION:** None Known.

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A.

## SECTION 11: TOXICOLOGICAL INFORMATION

### CARCINOGENICITY:

**OSHA:** Not recognized as carcinogenic.

**ACGIH:** Not recognized as carcinogenic.

**NTP:** Not recognized as carcinogenic.

**IARC:** Not recognized as carcinogenic.

**ROUTES OF EXPOSURE:** Eyes, skin.

### POTENTIAL HEALTH EFFECTS:

**EYES:** irritation

**SKIN:** irritation

**INGESTION:** Gastrointestinal disturbance and diarrhea if ingested.

**INHALATION:** None expected

**ACUTE HEALTH HAZARDS:** Eye irritation. Prolonged contact may cause irritation of skin and mucous membranes. May cause gastrointestinal disturbance and diarrhea if ingested.

**CHRONIC HELTH HAZARDS:** Possible allergic dermatitis.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Existing dermatological conditions (such as eczema) may be exacerbated.

## SECTION 12: ECOLOGICAL INFORMATION

The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices. Additional information is available from the supplier on request.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Avoid releasing to the environment. 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.

## 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

### **National Fire Protection Association Codes:**

Health: 1  
Fire: 1  
Reactivity: 0  
Other: None

### Hazardous Materials Identification System:

**Occupational Safety and Health Administration:** Eye Irritant, possible skin irritant.

**US DOT/ ICOA/ IMDG:** See section 14 above.

## SECTION 16: OTHER INFORMATION

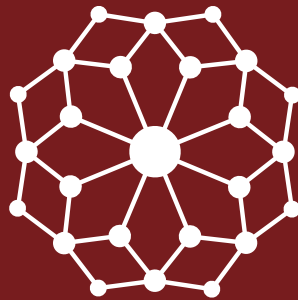
**PREPARTION INFORMATION:** This document is the first version of the MSDS documentation.

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