



SECTION 1: IDENTIFICATION

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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| GHS product identifier | Keratin Complex® KeraLuminous™ Keratin-enhanced permanent hair color | |
| Other means of identification | None | |
| Recommended use of the product and restrictions on use | Hair Care/Treatment: FOR USE BY CERTIFIED PROFESSIONALS ONLY | |
| Supplier's details | Developed for and Distributed by: KERATIN COMPLEX Boca Raton, Florida (U.S.A.), Tel: (561) 206-6050 www.keratincomplex.com | EU PIF: Keratin Holdings Europe SRL: Via Amedei, 4 - 20123 Milano (MI) |
| Emergency phone number: | For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 | |

SECTION 2: HAZARD(S) IDENTIFICATION

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|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Acute Toxicity – Oral | Category 4 |
| | Skin corrosion/irritation | Category 1 |
| | Serious Eye Damage / Eye Irritation | Category 1 |
| GHS label elements, including Precautionary Statements |  Warning | HEALTH STATEMENT |
| | | Warning Harmful if swallowed |
| | | Danger Causes severe skin burns and eye damage |
| |  Danger | Warning May cause an allergic skin reaction |
| | | PRECAUTIONARY STATEMENTS |
| | | <i>Prevention</i> |
| | | Wash hands thoroughly after handling |
| | | Do not eat, drink or smoke when using this product. |
| | | Do not breathe dusts or mists. |
| | | Wear suitable protective gloves, apron and eye protection. |
| | | <i>Response</i> |
| | | IF SWALLOWED: Immediately call a POISON CENTER or a doctor / physician. Rinse mouth. Do NOT induce vomiting. |
| | | IF IN SKIN: Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. |
| | | IF INHALE: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or a doctor/physician. |
| | | <i>Storage</i> |
| See Sections 7 and 10 of this SDS | | |
| <i>Disposal</i> | | |
| Dispose of contents/container in accordance with all federal, state and local applicable regulations. | | |
| Other hazards which do result in classification | Not available | |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components Chemical Identity (IUPAC) | Identification Number (CAS Number) | Other Unique Identifier (EC Number) | Concentration Range (%w/w) |
|----------------------------------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------|
| Ammonium Hydroxide | 1336-21-6 | 215-647-6 | 1 - 10 |

SECTION 4: FIRST-AID MEASURES

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| Description of necessary First-Aid measures | Inhalation: | Remove individual to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if you feel unwell. |
| | Skin: | Wash the contaminated skin gently and thoroughly with running water and non-abrasive soap. |
| | Eye contact: | Immediately rinse cautiously with water for several minutes keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persist. |
| | Ingestion: | Immediately call a Poison Center. Rinse mouth thoroughly and drink a couple of glasses of water. Do not induce vomiting. Consult a doctor or a Poison center immediately. |
| | <i>General Advice:</i> In case of any doubt or when the symptoms are persisting, consult a doctor. Never give anything to an unconscious person. If you have significant concerns please consult a physician, show this data sheet to the doctor in attendance. | |
| Most important symptoms/effects | Acute: | Overexposure if direct contact with eyes may causes severe damage, redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, dermatitis) in some sensitive individuals. |
| | Delayed: | Not available |
| Indication of immediate medical attention and special treatment needed if necessary | Notes to physician: | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Specific Treatments: | Not available |
| | Protect of first-aiders: | Use protective equipment (Section 8) |

SECTION 5: FIRE-FIGHTING MEASURES

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| Suitable extinguishing media: | Use an extinguishing agent suitable for the surrounding fire. | |
| Unsuitable extinguishing media: | Not available | |
| Specific hazards arising from the product combustion: | Not available | |
| Hazardous thermal decomposition products: | May produce toxic fumes of carbon monoxide if burning. | |
| Special protective precautions and equipment for fire-fighters: | Protective precautions: | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | Protective equipment: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. |



SECTION 6: ACCIDENTAL RELEASE MEASURES

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| Personal Precautions, Protective Equipment and Emergency Procedures | For non-emergency personnel: | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Wear protective gloves/clothing and eye/face protection. Avoid contact with eyes or skin and wear proper protection. Avoid breathing vapor or mists. |
| | For emergency responders: | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental Precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). | |
| Methods and materials for containment and cleaning up | For Small Spills <i>e.g.,</i> < 1 gallon (3.8L) | Wear appropriate personal protective equipment (e.g., safety glasses, apron, and nitrile gloves). Maximize ventilation (open doors and windows) Removed spilled material with non-combustible absorbent material and place it into appropriate closed container(s) for disposal. Dispose 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 <i>e.g.,</i> > 1 gallon (3.8L) | Deny area access to all unprotected individuals. Provide diking and contain with non-combustible inert material (e.g., sand or earth) to keep material from spreading. Transfer diked material to containers for recovery or disposal and solid diking material to separate containers for proper disposal according to local regulations (see Section 13). Remove contaminated clothing promptly and wash affected skin areas with mild soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. |

SECTION 7: HANDLING AND STORAGE

| FOR USE BY CERTIFIED PROFESSIONALS ONLY | | |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | Protective measures: | Always store in the original containers. Tightly close the containers after use. Do not use in any way other than that provided in the instructions for use. Do not use metal containers, stirrers or tools. Do not mix with other oxidizing agents (such as hydrogen peroxide or bleaching products) with the exception of those prescribed. Use the dyeing mixture immediately. Any residual dyeing mixture cannot be reused and must be disposed of immediately. Do not store the mixture in a closed container (it may swell and burst), in case you use a bottle for mixing the compound. Do not pierce nor burn the containers after use. Deliver only empty containers for recycling. Carefully follow the instructions for use. Keep out of the reach of children. |
| | Advice on general occupational hygiene: | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | Store in a dry and well-ventilated place (at room temperature). Do not store nor use the product near an open flame or a heat source (the product may deteriorate) or under direct sunlight. Do not store the product at temperatures below 5° C or above 40° C. | |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| Control Parameters | Chemical Identity (IUPAC): | | Occupational Exposure Limits Values | | Source | |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
| | Ammonium Hydroxide | | Permissible Exposure Limit (PEL) | 50 ppm | OSHA | |
| | | | Threshold Limit Value (TLV) | 25 ppm | ACGIH | |
| | | | Short-Term Exposure Limit (STEL) | 35 ppm | ACGIH | |
| Appropriate Engineering Controls | Good general ventilation should be sufficient to control exposure to airborne contaminants. | | | | | |
| Environmental Exposure Controls | Not available | | | | | |
| Individual Protection Measures, such as Personal Protective Equipment (PPE) | Hygiene measures: | When using do not eat, drink or smoke. Avoid contact with eyes, skin and clothing. | | | | |
| | Eye / face protection: | Wear safety glasses | |  | | |
| | Skin protection | Hand protection: | Wear suitable gloves | |  | |
| | | Body protection: | Wear suitable protective clothing | | | |
| | | Other skin protection: | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling the product. | | | |
| | Respiratory protection: | Not relevant | | | | |
| | Thermal hazards: | Not relevant | | | | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------------------------------------|------------------------------|
| Physical State at 20°C | Liquid |
| Color | Various |
| Odor | Characteristic |
| Melting point/freezing point | Not available |
| Boiling point | 100°C (212°F) |
| Flammability | Not relevant – Not flammable |
| Lower and upper explosion limit/flammability limit | Not relevant |
| Flash point | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| pH at 25°C | 9.5 – 11.0 |
| Viscosity at 25°C | 30,000 – 100,000 cps |
| Solubility | Dispersible |
| Partition coefficient: n-octanol/water (log value) | Not available |

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|--------------------------|-----------------------|
| Vapor pressure | Not available |
| Relative density | Not available |
| Relative vapor density | Not available |
| Particle characteristics | Not relevant – Liquid |

SECTION 10: STABILITY AND REACTIVITY

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|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Reactivity | Not available. |
| Chemical Stability | Product is stable under normal ambient storage conditions of temperature and pressure. |
| Possibility of Hazardous Reactions | Not available. |
| Conditions to Avoid | Heat or ignition source, direct sunlight, temperatures below 5°C or above 40° C. |
| Incompatible materials | Acids and nickel-plated instruments. |
| Hazardous decomposition products | Combustion may produce oxides of carbon, nitrogen and sulfur and other vapors those may be harmful to health. |

SECTION 11: TOXICOLOGICAL INFORMATION

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|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|
| Information on the likely routes of exposure | | | |
| Ingestion: | Harmful if swallowed. | | |
| Inhalation: | No known effect. | | |
| Skin / Eye exposure: | May cause burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Symptoms may be delayed. Avoid contact with eyes. | | |
| Symptoms related to the Physical, Chemical and Toxicological Characteristics | | | Not available |
| Delayed and immediate effects and also chronic effects from Short and Long Term Exposure | | | Not available |
| Numerical measures of Toxicity | | | Not available |
| Acute Toxicity: | May be harmful if swallowed. | | |
| Skin Corrosion/Irritation: | Causes burns | | |
| Serious Eye Damage/Irritation: | Risk of serious damage to eyes. | | |
| Respiratory Sensitization: | No known effect. | | |
| Germ Cell Mutagenicity: | No known effect. | | |
| Carcinogenicity: | No known effect. | | |
| Reproductive Toxicity: | No known effect. | | |
| STOT – Single Exposure: | No known effect. | | |
| STOT – repeated exposure: | No known effect. | | |
| Aspiration hazard: | No known effect. | | |
| Component Information: | Chemical Identity (IUPAC) | CAS | LD50 Oral |
| | Ammonium Hydroxide | 1336-21-6 | 350 mg/kg (Rat) |

SECTION 12: ECOLOGICAL INFORMATION

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|-------------------------------|---------------|
| Toxicity | Not available |
| Persistence and Degradability | Not available |
| Bio accumulative potential | Not available |

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|------------------------------|---------------|
| Mobility in soil | Not available |
| Other Adverse Effects | Not available |

SECTION 13: DISPOSAL CONSIDERATIONS

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| Disposal methods | Dispose of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinse out. Dispose according to Federal, State, and local regulations regarding health, air, and water pollution. |
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SECTION 14: TRANSPORT INFORMATION

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|--------------------------------|------------------------------|
| Un Number | Not relevant – Not regulated |
| Un Proper Shipping Name | Not relevant – Not regulated |
| Transport Hazard Class | Not relevant – Not regulated |
| Packing Group | Not relevant – Not regulated |
| Environmental Hazards | Not relevant – Not regulated |
| Transport In Bulk | Not relevant – Not regulated |
| Special Precautions | Not relevant – Not regulated |

SECTION 15: REGULATORY INFORMATION

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|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety, Health and Environmental Regulations specific for the product in question | Regulated as a Cosmetic under FDA (US), HPB (Canada), Cosmetic Regulation (EU) |
| | <p style="text-align: center;">UNITED STATES OF AMERICA:</p> <p><i>Federal</i> All of the ingredients in the formulation are compliant with the Federal Food, Drug, and Cosmetics Act (FDA) and this product is safe to be used by professional hair dressers previously trained and certified to use this product.</p> <p><i>California</i> This product is not subject to warning labeling under California Proposition 65</p> |
| | <p style="text-align: center;">CANADA:</p> <p>All ingredients are CEPA approved for import to Canada.</p> |
| | <p style="text-align: center;">EUROPE:</p> <p>All of the ingredients in the formulation are compliant with European Commission Health and Consumers Cosmetics - CosIng current Regulations/Directives</p> |
| | <p style="text-align: center;">AUSTRALIA:</p> <p>All of the ingredients where evaluated in part under HSIS.</p> |

SECTION 16: OTHER INFORMATION

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| Date of preparation of the SDS | |
| April 15, 2019 | |
| Key/legend to abbreviations and acronyms used in the SDS. | |
| ACGIH | American Conference of Governmental Industrial Hygienist |
| ADR | The European Agreement concerning the International Carriage of Dangerous Goods by Road |
| °C | Degrees Celsius |
| CAS | Chemical Abstract Service |
| CEPA | Canadian Environmental Protection Act |
| CFR | Code of Federal Regulations |
| Cps | Centipoises |
| EC | European Community |
| EEC | European Economic Community |
| e.g. | Meaning "for example." It is short for the Latin <i>exempli gratia</i> , "for the sake of example." |
| FDA | Food and Drug Administration |
| GHS | Globally Harmonized System |
| HPB | Health Protection Branch |
| HSIS | Hazardous Substances Information System |
| IATA | International Air Traffic Association |
| IUPAC | International Union of Pure and Applied Chemistry |
| IMDG | International Maritime Dangerous Goods |
| mg/m ³ | Milligrams per cubic meter |
| OSHA | Occupation Safety & Health Administration |
| PEL | Permissible Exposure Limit |
| PIF | Product Information File |
| Ppm | Parts Per Million |
| Ref | Reference |
| Vol. | Volume |
| TWA | Time Weighted Average |
| UN | United Nations |
| Literature references. | |
| <ul style="list-style-type: none"> Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Seventh revised edition, United Nations, New York and Geneva, 2017 ST/SG/AC.10/30/Rev.7 | |
| Sources for data | |
| <ul style="list-style-type: none"> European Commission Database For Information On Cosmetics Substances And Ingredients (CosIng) United States Of America's National Library Of Medicine's Toxicology Data Network (TOXNET) The European Agreement Concerning The International Carriage Of Dangerous Goods By Road, United Nations, New York And Geneva, 2016, ECE/TRANS/257(ADR) Safe Work Australia, Hazardous Substances Information System (HSIS) International Air Transport Association, Dangerous Goods Regulations (IATA) The National Institute for Occupational Safety and Health (NIOSH) – website address: https://cdc.gov/niosh Haz-Map® Occupational Health Database, U.S. National Library of Medicine. Information on Hazardous Chemicals and Occupational Diseases by Jay A. Brown, M.D., M.P.H. - website address: https://hazmap.nlm.nih.gov | |

GHS Pictograms



GHS01
Explosive



GHS02
Flammable



GHS03
Oxidizer



GHS04
Pressurized



GHS05
Corrosive



GHS06
Toxic



GHS07
Harmful/Irritating



GHS08
Health Hazard



GHS09
Environment

Precautionary pictograms From European Union
(COUNCIL DIRECTIVE 92/58/EEC of 24 June 1992)



Eye protection



Respiratory equipment



Face protection



Safety overalls



Safety boots

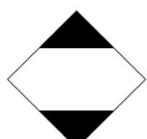


Safety gloves

ADR, Annex A General provisions and provisions concerning dangerous substances and articles; Classification; Class Specific Provisions



Class 5.1 HAZARD
Oxidizing Substances



Limited Quantities
Except For Air Transport



Limit Quantities by Air

Declaration

Keratin Complex believes that the information contained in this SDS is correct as of its last revision date (same as listed above). However, because conditions and usage methods of our products are beyond Keratin Complex control, of or in ways we cannot anticipate, we give no warranty, expressed or implied, as to accuracy of the information and assume no responsibility for any damage to person, property or business arising from such use. Moreover, it is the responsibility of the purchaser or user of this product to ensure that it is properly and safely used. This SDS does not replace any other document, such as instructional leaflets or inserts. Under no circumstances does it constitute an exemption from the obligation to know and apply all the regulations governing its activity. This SDS replaces all previous versions of this product's SDS.

End SDS.