

**Kerasilk Rich Keratin Care Cond. Spray**

Article number 205730 = 150ml

KAO USA Inc.

Linthicum Heights, MD 21090

Date printed 10.04.2013, Revision 10.04.2013

Version 01

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**SECTION 1: Identification of the substance / preparation and of the company**

**Product identifier** **Kerasilk Rich Keratin Care Cond. Spray**  
**Article number 205730 = 150ml**

**Relevant identified uses of the substance or mixture and uses advised against** Care spray

**Identified use** Cosmetics

**Company** KAO USA Inc.

Linthicum Heights, MD 21090 / USA  
Phone 001410-850-7555

**Address enquiries to**

**Emergency phone Company** CHEMTREC: +1 703 527-3887 (24h)

**Safety Data Sheet** sdb@chemiebuero.de

**SECTION 2: Hazards identification****Emergency Overview**

**Appearance, Odor:** liquid, whitish, characteristic

WARNING

FLAMMABLE LIQUID AND VAPOR

**OSHA Regulatory Status** This product is defined as Cosmetics. Therefore, this product is exempt from requirements of the hazard communication standard, 29 CFR1910.1200.

**Potential health effects**

**Potential environmental effects**

**SECTION 3: Composition / Information on ingredients**

The product is a mixture.

Range [%]	Substance
30 - <50	Ethanol CAS: 64-17-5
1 - <5	Propan-2-ol CAS: 67-63-0

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.

**SECTION 4: First aid measures**

**Description of first aid measures** Change soaked clothing.

**Inhalation** Ensure supply of fresh air.  
In the event of symptoms seek for medical treatment.

**Skin contact** When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**Ingestion** Seek medical advice immediately.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

**Indication of any immediate medical attention and special treatment needed** Treat symptomatically.  
Forward this sheet to the doctor.

**SECTION 5: Fire-fighting measures**

<b>Suitable extinguishing media</b>	Alcohol-resistant foam. Dry powder. Carbon dioxide. Water.
<b>Extinguishing media that must not be used</b>	Full water jet.
<b>Special exposure hazards arising from the substance or preparation itself or combustion products</b>	Unknown risk of formation of toxic pyrolysis products.
<b>Special protective equipment for firefighters</b>	Use self-contained breathing apparatus.
<b>Additional information</b>	Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep away from all sources of ignition.  Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Use personal protective equipment (protective gloves, safety glasses, protective clothing).
<b>Environmental precautions</b>	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
<b>Methods and material for containment and cleaning up</b>	Absorb with non-combustible material like sand.  Dispose of absorbed material in accordance with the regulations.

**SECTION 7: Handling and storage**

<b>Precautions for safe handling</b>	Provide suitable vacuuming at the processing machines. Use only in well-ventilated areas.
<b>Advice on protection against fire and explosion</b>	Vapours can form an explosive mixture with air.  Take precautionary measures against static discharges. Ignitable mixtures can be formed in the empty container. Keep away from all sources of ignition - Refrain from smoking. Ground/bond container and receiving equipment.
<b>Requirements for storage rooms and vessels</b>	Keep only in original container.  Prevent penetration into the ground. Provide solvent-resistant and impermeable floor.
<b>Advice on storage compatibility</b>	Do not store together with oxidizing agents.
<b>Further information on storage conditions</b>	Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating.

**SECTION 8: Exposure controls / personal protection**

**Additional advice on system design** Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored (US)**

Range [%]	Substance
30 - <50	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, ECB-Nr.: 01-2119457610-43-XXXX Long-term exposure: 1000 ppm, 1900 mg/m <sup>3</sup> , OSHA, NIOSH
1 - <5	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-xxxx Long-term exposure: 400 ppm, 980 mg/m <sup>3</sup>

**Respiratory protection**

Breathing apparatus in the event of high concentrations.  
Short term: filter apparatus, filter A.

**Hand protection**

The details concerned are recommendations. Please contact the glove supplier for further information.  
butyl rubber, > 120 min (EN 374)

**Eye protection**

Safety glasses.

**Skin protection**

None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals.

**General protective measures**

Do not breathe vapour/spray.  
Avoid contact with eyes and skin.  
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

**Hygiene measures**

Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.

**Delimitation and monitoring of the environmental exposition**

See SECTION 6+7.

**SECTION 9: Physical and chemical properties**

Form	liquid
Color	whitish
Odor	characteristic
pH-value	4,5 - 5,0
pH-value [1%]	not applicable
Boiling point [°C]	> 75
Flash point [°C]	22,5 - 26,5
Lower explosion limit	3,5 Vol.% (Ethanol)
Upper explosion limit	15 Vol.% (Ethanol)
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	~ 0,93 (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not determined

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**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	No dangerous reactions known if used as directed.
<b>Chemical stability</b>	The product is stable under standard conditions.
<b>Possibility of hazardous reactions</b>	Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air. Reactions with oxidizing agents.
<b>Conditions to avoid</b>	See SECTION 7.2. Strong heating.
<b>Incompatible materials</b>	not determined
<b>Hazardous decomposition products</b>	No hazardous decomposition products known.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Range [%]	Substance
1 - <5	Propan-2-ol, CAS: 67-63-0
	LD50, oral, Rat: 5045 mg/kg bw (RTECS).
	LC50, inhalative, Rat: 46,5 mg/L (4h).
	LD50, dermal, Rat: 12800 mg/kg bw (IUCLID).
30 - <50	Ethanol, CAS: 64-17-5
	LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403).
	NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451).
	LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).
	LD50, oral, Rat: 10470 mg/kg (OECD 401).

<b>Acute oral toxicity</b>	not determined
<b>Acute dermal toxicity</b>	not determined
<b>Acute inhalational toxicity</b>	not determined
<b>Serious eye damage/irritation</b>	not determined
<b>Skin corrosion/irritation</b>	not determined
<b>Respiratory or skin sensitisation</b>	not determined
<b>Specific target organ toxicity — single exposure</b>	not determined
<b>Specific target organ toxicity — repeated exposure</b>	not determined
<b>Mutagenicity</b>	not determined
<b>Reproduction toxicity</b>	not determined
<b>Carcinogenicity</b>	not determined
<b>General remarks</b>	No classification on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

This is a cosmetic product that is safe under intended and reasonable foreseeable use. Taking into account the use instructions, the toxicological profile of the ingredients and the evaluation of the final formulation this product is considered as safe and thus not harming human health.

**SECTION 12: Ecological information****Toxicity**






Range [%]	Substance
1 - <5	Propan-2-ol, CAS: 67-63-0
	EC50, (48h), Daphnia magna: 13299 mg/L (IUCLID).
	LC50, (96h), Pimephales promelas: 9640 mg/L (IUCLID).
	EC50, (72h), Scenedesmus subspicatus: >1000 mg/L (IUCLID).
30 - <50	Ethanol, CAS: 64-17-5
	EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201).
	LC50, (96h), Oncorhynchus mykiss: 13000 mg/l (OECD 203).
	LC50, (48h), Daphnia magna: 12340 mg/l.
	EC50, (72h), Algae: 275 mg/l (OECD 201).

<b>Fish toxicity</b>	not determined
<b>Daphnia toxicity</b>	not determined
<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Bacteria toxicity</b>	not determined
<b>Biological degradability</b>	not determined
<b>COD</b>	not determined
<b>BOD 5</b>	not determined
<b>AOX-advice</b>	not applicable
<b>2006/11/EC:</b>	not applicable
<b>Other adverse effects</b>	No classification on the basis of the calculation procedure of the preparation directive. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

**SECTION 13: Disposal considerations**

<b>Product</b>	Coordinate disposal with the authorities if necessary.
<b>Contaminated packaging</b>	Disposal in an incineration plant in accordance with the regulations of the local authorities. Uncontaminated packaging may be taken for recycling.
<b>RCRA Hazard Class (40CFR 261)</b>	Packaging that cannot be cleaned should be disposed of as for product. Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

**SECTION 14: Transport information**

<b>Transport by land according to ADR/RID</b>	UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 III
- Classification Code	F1
- Label	
- ADR LQ	5 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (D/E)
<b>Inland navigation (ADN)</b>	UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 III
- Classification Code	F1
- Label	
<b>Marine transport in accordance with IMDG</b>	UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 III
- EMS	F-E, S-E
- Label	
- IMDG LQ	5 l
<b>Air transport in accordance with IATA</b>	UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol-mixture) 3 III
- Label	
<b>DOT Road Shipment Information (49 CFR)</b>	UN/NA 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 III
- Label	

**SECTION 15: Regulatory information**

**US Regulations**

**National regulations**

29 CFR 1910.1200, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

This product does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product contain one ingredient regulated under this list.

- CA Proposition 65

not determined

- TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA

**American Conference of Governmental Industrial Hygienists - ACGIH**

Ingredients not listed as carcinogens.

**International Agency for Research on Cancer IARC**

Ingredients not listed as carcinogens.

**National Toxicology Program - NTP**

Not Determinated.

**HAP-VOC**

**Transport-regulations**

DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

**Other Right to Know Laws**

**EC Regulations**

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

**Hazard pictograms**



**Signal word**

WARNING

**Hazard statements**

H226 Flammable liquid and vapour.

**Labelling**

The product is classified and required to be labelled in accordance with EC-Directives

**Hazard symbols**

none

**R-phrases**

R 10: Flammable.

**S-phrases**

**Special labelling**

none

**SECTION 16: Other information**

**Observe employment restrictions for people**

yes

**Customs Tariff**

not determined

**648/2004/CE**

not applicable

**HMIS Ratings**

<b>HEALTH</b>	<b>1</b>	1 - Slight Hazard
<b>FLAMMABILITY</b>	<b>3</b>	3 - Severe Hazard
<b>REACTIVITY</b>	<b>1</b>	1 - Slight Hazard
<b>PERSONAL PROTECTION</b>	<b>X</b>	X - Personal protection rating to be supplied by user depending on use conditions

**NFPA Ratings**



TOP, FLAMMABILITY: 3 - Severe Hazard

LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 1 - Slight Hazard

BOTTOM, SPECIAL NOTICE: FLL - Flammable Liquid

**Modified position**

none

**Safety Data Sheet (SDS) conforms to ANSI Z400.1/Z129.1-2010 (29 CFR 1910) (US)**

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Key / Legende:

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; EINCES = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TSCA = Toxic Substances Control Act

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