

**Kerasilk Keratin Shape**

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 1 / 7

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

<b>Product identifier</b>	<b>Kerasilk Keratin Shape</b> <b>Article number 205660-500ml / 205661-50ml</b>
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	Smoothing agent
<b>Identified use</b>	Cosmetics
<b>Company</b>	KAO USA Inc. Linthicum Heights, MD 21090 / USA Phone 001410-850-7555
<b>Address enquiries to</b>	
<b>Emergency phone Company</b>	CHEMTREC: +1 703 527-3887 (24h)
<b>Safety Data Sheet</b>	sdb@chemiebuero.de

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

**Appearance, Odor:** Gel, cloudy  
yellowish, sourish

**DANGER**  
CAUSES SERIOUS EYE DAMAGE.  
MAY CAUSE ALLERGIC SKIN REACTION.

**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
5 - 10	Glyoxylic acid CAS: 298-12-4
1 - 5	Propane-1,2-diol CAS: 57-55-6

**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**

<b>Description of first aid measures</b>	Change soaked clothing immediately.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Supply with medical care.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically. Forward this sheet to the doctor.

Kerasilk Keratin Shape

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 2 / 7

### SECTION 5: Fire-fighting measures

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	none
<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>	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
<b>Additional information</b>	Fire residues must be disposed of in accordance within the local regulations.

### SECTION 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment.
<b>Environmental precautions</b>	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into surface waters/groundwater.
<b>Methods and material for containment and cleaning up</b>	Take up with absorbent material (e.g. acid binder). Dispose of absorbed material in accordance within the regulations.

### SECTION 7: Handling and storage

<b>Precautions for safe handling</b>	Use only in well-ventilated areas.
<b>Requirements for storage rooms and vessels</b>	Prevent penetration into the ground. Only use containers that are approved specifically for the substance/product.
<b>Advice on storage compatibility</b>	Do not store together with oxidizing agents. Do not store together with food and animal food/diet.
<b>Further information on storage conditions</b>	Keep container tightly closed. Keep container in a well-ventilated place. Do not keep at temperatures above 25°C/ 77°F. Keep in a cool place.

### SECTION 8: Exposure controls / personal protection

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Ingredients with occupational exposure limits to be monitored (US)</b>	not applicable
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374).
<b>Eye protection</b>	Tightly fitting goggles.
<b>Skin protection</b>	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. light protective clothing
<b>General protective measures</b>	Avoid contact with eyes.
<b>Hygiene measures</b>	Do not eat or drink when working. Wash hands before breaks and after work. Use barrier skin cream.
<b>Delimitation and monitoring of the environmental exposition</b>	not determined

**Kerasilk Keratin Shape**

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 3 / 7

**SECTION 9: Physical and chemical properties**

<b>Form</b>	Gel
<b>Color</b>	cloudy yellowish
<b>Odor</b>	sourish
<b>pH-value</b>	1,9 - 2,1
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	not applicable
<b>Flammability [°C]</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidizing properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	1,042 - 1,05
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	not determined
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	6000 - 10000 cP (20°C/68°F) (Brookfield RV DVIII sp 5, 5 rpm )
<b>Relative vapour density determined in air</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined

**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	See SECTION 10.3.
<b>Chemical stability</b>	Stable under normal ambient conditions (ambient temperature).
<b>Possibility of hazardous reactions</b>	Corrosive to metals. Reactions with acids and strong oxidizing agents.
<b>Conditions to avoid</b>	Strong heating.
<b>Incompatible materials</b>	Various metals.
<b>Hazardous decomposition products</b>	Formaldehyde may be generated on thermal decomposition. Analytical investigations have shown that negligible amounts of formaldehyde are released under recommended usage conditions (as described in the usage instructions). All measurements, carried out according to NIOSH 2106, show formaldehyde levels of < 0.1 ppm.

## Kerasilk Keratin Shape

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 4 / 7

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

Range [%]	Substance
5 - 10	Glyoxylic acid, CAS: 298-12-4
	LD50, dermal, Rat: > 2000 mg/kg bw (50%).
	LD50, oral, Rat: 2528 mg/kg bw (50%).
1 - 5	Propane-1,2-diol, CAS: 57-55-6
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: > 22000 mg/kg.

**Acute oral toxicity** not determined**Acute dermal toxicity** not determined**Acute inhalational toxicity** not determined**Serious eye damage/irritation** not determined**Skin corrosion/irritation** not determined**Respiratory or skin sensitisation** not determined**Specific target organ toxicity — single exposure** not determined**Specific target organ toxicity — repeated exposure** not determined**Mutagenicity** not determined**Reproduction toxicity** not determined**Carcinogenicity** not determined**General remarks**

The product was classified on the basis of the calculation procedure of the preparation directive.

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
5 - 10	Glyoxylic acid, CAS: 298-12-4
	LC50, (96h), Brachidanio rerio: > 200 mg/l (50%).
	EC50, (72h), Selenastrum capricornutum: 67,5 mg/l (50%).
	EC50, (24h), Daphnia magna: > 200 mg/l (50%).
1 - 5	Propane-1,2-diol, CAS: 57-55-6
	LC50, (96h), Oncorhynchus mykiss: 40613 mg/l.
	EC50, (72h), Selenastrum capricornutum: 24200 mg/l.

**Fish toxicity** not determined**Daphnia toxicity** not determined**Behaviour in environment compartments** No information available.**Behaviour in sewage plant** No information available.**Bacteria toxicity** No information available.**Biological degradability** No information available.**COD** not determined**BOD 5** not determined**AOX-advice** No information available.**Other adverse effects** Do not discharge product unmonitored into the environment.

No classification on the basis of the calculation procedure of the preparation directive.

Kerasilk Keratin Shape

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013






Version 02. Supersedes version: 01

Page 5 / 7

### SECTION 13: Disposal considerations

<b>Product</b>	Dispose of as hazardous waste. Coordinate disposal with the disposal contractor/authorities if necessary.
<b>Contaminated packaging</b>	Untaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
<b>RCRA Hazard Class (40CFR 261)</b>	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 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III
- Classification Code	C3
- Label	
- ADR LQ	5 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (E)
<b>Inland navigation (ADN)</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III
- Classification Code	C3
- Label	
<b>Marine transport in accordance with IMDG</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III
- EMS	F-A, S-B
- Label	
- IMDG LQ	5 I
<b>Air transport in accordance with IATA</b>	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III
- Label	
<b>DOT Road Shipment Information (49 CFR)</b>	UN/NA 3265 Corrosive liquid, acidic, organic n.o.s. (glyoxylic acid) 8 III
- Label	

## Kerasilk Keratin Shape

Article number 205660-500ml / 205661-50ml

KAO USA Inc.

MD 21090

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 6 / 7

**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 does not contain any ingredients regulated under this list.

- CA Proposition 65

No chemical substances in this material are named on the California P65 list.

- TSCA

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

- FDA

not applicable

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

not determined

**International Agency for Research on Cancer IARC**

Not determined.

**National Toxicology Program - NTP**

This product is not named NTP - National Toxicology Program.

**HAP-VOC**

not applicable

**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

**Labelling**

This preparation is excluded as cosmetics from the regulation 1999/45/EEC.

**Hazard symbols**

Irritant

**Contains:**

Glyoxylic acid EINECS: 206-058-5

**R-phrases**

R 36: Irritating to eyes.

R 43: May cause sensitisation by skin contact.

**S-phrases**

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37: Wear suitable protective clothing and gloves.

**Special labelling**

DANGER

**Emergency Overview**

CAUSES SERIOUS EYE DAMAGE.

MAY CAUSE ALLERGIC SKIN REACTION.

**SECTION 16: Other information****HMIS Ratings**

<b>HEALTH</b>	<b>2</b>	2 - Moderate Hazard
<b>FLAMMABILITY</b>	<b>0</b>	0 - Minimal 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: 0 - Minimal Hazard

LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard

BOTTOM, SPECIAL NOTICE: -

**Modified position**

none

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

**Kerasilk Keratin Shape**

**Article number 205660-500ml / 205661-50ml**

**KAO USA Inc.**

**MD 21090**

Date printed 01.04.2014, Revision 21.05.2013

Version 02. Supersedes version: 01

Page 7 / 7

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

Copyright: Chemiebüro®