

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

**GW Kerasilk Control Keratin Shape Intense
Article number 265211-500ml**

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

hair treatment

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company KAO USA Inc.
2535 Spring Grove Avenue
Cincinnati, Ohio 45214 / USA
Phone

Address enquiries to

Technical information

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Dam. 1: H318 Causes serious eye damage.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Met. Corr. 1: H290 May be corrosive to metals.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)
This preparation is excluded as cosmetics for labelling requirements of 29 CFR 1910.1200-HCS 2012 in accordance to (b)(5)(iii).

2.3 Other hazards

Physico-chemical hazards Corrosive effects to metals.

Other hazards No particular hazards known.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
15 - 25	Glyoxylic acid CAS: 298-12-4, EINECS/ELINCS: 206-058-5, Reg-No.: 01-2119487011-47
1 - 5	Propane-1,2-diol CAS: 57-55-6, EINECS/ELINCS: 200-338-0, Reg-No.: 01-2119456809-23-xxxx

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately 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	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	none

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Use barrier skin cream.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.

Only use containers that are approved specifically for the substance/product.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

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.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

not applicable

DNEL

Range [%]	Substance
15 - 25	Glyoxylic acid, CAS: 298-12-4
	Industrial, inhalative, Long-term - systemic effects: 9,4 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 4 mg/kg bw/d.
1 - 5	Propane-1,2-diol, CAS: 57-55-6
	Industrial, inhalative, Long-term - local effects: 10 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 168 mg/m ³ .
	general population, oral, Long-term - systemic effects: 85 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 213 mg/kg bw/d.
	general population, inhalative, Long-term - local effects: 10 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 50 mg/m ³ .

PNEC

Range [%]	Substance
15 - 25	Glyoxylic acid, CAS: 298-12-4
	oral (food), 13,2999 mg/kg food.
	sewage treatment plants (STP), 200 mg/l.
	soil, 0,0163 mg/kg dw.
	sediment (seaater), 0,0375 mg/kg dw.
	sediment (freshwater), 0,375 mg/kg dw.
	seawater, 0,01 mg/l.
	freshwater, 0,1 mg/l.
1 - 5	Propane-1,2-diol, CAS: 57-55-6
	soil, 50 mg/kg dw.
	sediment (seaater), 57,2 mg/kg dw.
	sediment (freshwater), 572 mg/kg dw.
	sewage treatment plants (STP), 20000 mg/l.
	seawater, 26 mg/l.
	freshwater, 260 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: 0,7 mm: Butyl rubber, >480 min (EN 374).
Skin protection	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. Acid-resistant protective clothing. Avoid contact with eyes.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Gel
Color	turbid yellowish
Odor	sourish
Odour threshold	not determined
pH-value	1,6 - 1,8
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,1160 - 1,1240
Bulk density [kg/m ³]	not applicable
Solubility in water	not determined
Partition coefficient [n-octanol/water]	not determined
Viscosity	4500 - 8500 mPas (20°C/68°F) (Brookfield RV DVIII sp 5, 5 rpm)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Corrosive to metals.
Reactions with acids and strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Various metals.

10.6 Hazardous decomposition products

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
15 - 25	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.

Serious eye damage/irritation	Toxicological data of complete product are not available. Risk of serious damage to eyes. Calculation method
Skin corrosion/irritation	[Single Patch Test (1x 24h)]:IS= 0 (1%)
Respiratory or skin sensitisation	Toxicological data of complete product are not available. May cause an allergic skin reaction. Calculation method
Specific target organ toxicity — single exposure	Based on the information available, the classification criteria have not been fulfilled.
Specific target organ toxicity — repeated exposure	Based on the information available, the classification criteria have not been fulfilled.
Mutagenicity	Based on the information available, the classification criteria have not been fulfilled.
Reproduction toxicity	Based on the information available, the classification criteria have not been fulfilled.
Carcinogenicity	Based on the information available, the classification criteria have not been fulfilled.
Aspiration hazard	Based on the information available, the classification criteria have not been fulfilled.
General remarks	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

12.1 Toxicity

Range [%]	Substance
15 - 25	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.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

SECTION 14: Transport

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID 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)

DOT Road Shipment Information (49 CFR) UN/NA 3265 Corrosive liquid, acidic, organic n.o.s. (glyoxylic acid) 8 III

- Label



Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US)

GW Kerasilk Control Keratin Shape Intense

Article number 265211-500ml

KAO USA Inc.

Cincinnati, Ohio 45214

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Version 01

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Marine transport in accordance with IMDG UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III

- EMS

F-A, S-B

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA UN 3265 Corrosive liquid, acidic, organic, n.o.s. (Glyoxylic acid) 8 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

no

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Regulations

National regulations

29 CFR 1910.1200-HCS 2012, 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 (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

SECTION 16: Other information

16.1 Ratings

HMIS Ratings

HEALTH	2	2 - Moderate Hazard
FLAMMABILITY	0	0 - Minimal Hazard
PHYSICAL HAZARD	1	1 - Slight Hazard
PERSONAL PROTECTION	X	X - Personal protection rating to be supplied by user depending on use conditions

NFPA Ratings

0
2 1
-

TOP, FLAMMABILITY: 0 - Minimal Hazard

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

BOTTOM, SPECIAL NOTICE: -

16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;
CAS = Chemical Abstracts Service;
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
CFR = Code of Federal Regulations;
CPR = Controlled Products Regulations;
DMEL = Derived Minimum Effect Level;
DNEL = Derived No Effect Level;
DOT = Department of Transportation;
EC50 = Median effective concentration;
EPA = Environmental Protection Agency;
GHS = Globally Harmonized System of Classification and Labelling of Chemicals;
IATA = International Air Transport Association;
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;
IC50 = Inhibition concentration, 50%;
IMDG = International Maritime Code for Dangerous Goods;
IARC = International Agency of Research on Cancer;
IATA = International Air Transport Association;
TSCA = Toxic Substance Control Act;
HMIS = Hazardous Materials Identification System;
NFPA = National Fire Protection Association;
NIOSH = National Institute for Occupational Safety and Health;
OSHA = Occupational Safety and Health Administration;
LC50 = Lethal concentration, 50%;
LD50 = Median lethal dose, 50%;
MARPOL = International Convention for the Prevention of Marine Pollution from Ships;
PBT = Persistent, Bioaccumulative and Toxic substance;
PNEC = Predicted No-Effect Concentration;
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;
SARA = Superfund Amendments and Reauthorization Act;
TLV@TWA = Threshold limit value – time-weighted average;
TLV@STEL = Threshold limit value – short-time exposure limit;
VOC = Volatile Organic Compounds;
vPvB = very Persistent and very Bioaccumulative;

16.3 Other information

Classification procedure

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Met. Corr. 1: H290 May be corrosive to metals. (Bridging principle "Batching")

Modified position

none

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