

**DS Curly Twist Enriching Serum**

Article number 205578= 12x18ml (2L5578=18ml)

KAO USA Inc.

MD 21090

Date printed 19.09.2013, Revision 19.09.2013

Version 01

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

<b>Product identifier</b>	<b>DS Curly Twist Enriching Serum</b> <b>Article number 205578= 12x18ml (2L5578=18ml)</b>
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	hair treatment
<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:** liquid, BP: green  
UP: colourless  
LP: colourless, characteristic

WARNING  
FLAMMABLE LIQUID AND VAPOR  
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
1 - <15	Ethanol CAS: 64-17-5
1 - <10	Octamethyltrisiloxane CAS: 107-51-7
< 1	Propan-2-ol CAS: 67-63-0
0,1 - <1	Glyoxylic acid CAS: 298-12-4
0,1 - <1	Quaternary ammonium compounds, C16-18-alkyltrimethyl, chlorides CAS: 68002-62-0

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.  
For full text of H-statements and R-phrases: see SECTION 16.

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**SECTION 4: First aid measures**

<b>Description of first aid measures</b>	Change soaked clothing.
<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>	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.
<b>Indication of any immediate medical attention and special treatment needed</b>	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 spray jet.
<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>	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>	High risk of slipping due to leakage/spillage of product. Keep away from all sources of ignition.
<b>Environmental precautions</b>	Do not discharge into the drains/surface waters/groundwater.
<b>Methods and material for containment and cleaning up</b>	Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance with the regulations.

**SECTION 7: Handling and storage**

<b>Precautions for safe handling</b>	No special measures necessary if used correctly.
<b>Advice on protection against fire and explosion</b>	Keep away from all sources of ignition - Refrain from smoking. Ground/bond container and receiving equipment. Use explosion-proofed equipment/fittings and non-sparking tools.
<b>Requirements for storage rooms and vessels</b>	Keep only in original container.
<b>Advice on storage compatibility</b>	Do not store together with oxidizing agents.
<b>Further information on storage conditions</b>	Keep container tightly closed. Protect from heat/overheating.

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**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
1 - <15	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	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**

not applicable

**Hand protection**

The details concerned are recommendations. Please contact the glove supplier for further information.

In full contact:  
butyl rubber, > 120 min (EN 374)**Eye protection**If there is a risk of splashing:  
Safety glasses.**Skin protection**

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

**General protective measures**

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.

Avoid contact with eyes.  
Do not inhale vapours.**Hygiene measures**Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.**Delimitation and monitoring of the environmental exposition**

See SECTION 6+7.

**SECTION 9: Physical and chemical properties**

<b>Form</b>	liquid
<b>Color</b>	BP: green UP: colourless LP: colourless
<b>Odor</b>	characteristic
<b>pH-value</b>	4,0 - 4,5 (LP); 3,7 - 4,3 (BP)
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	38,5 - 40,5 ; 101 - 105 °F (LP) / 37,0 - 39,0 ; 98,5 - 102 °F (UP)
<b>Flammability [°C]</b>	not determined
<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>	0,9767 - 0,9807 (LP)/ 0,8225 - 0,8265 (UP); 0,991 - 1,001 (BP) (20 °C / 68,0 °F)
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	LP: miscible UP: immiscible BP miscible
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	not determined
<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 applicable
<b>Decomposition temperature [°C]</b>	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>	Reactions with strong oxidizing agents. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
<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
0,1 - <1	Glyoxylic acid, CAS: 298-12-4
	LD50, oral, Rat: 2528 mg/kg bw (50%).
	LD50, dermal, Rat: > 2000 mg/kg bw (50%).
< 1	Propan-2-ol, CAS: 67-63-0
	LC50, inhalative, Rat: 46,5 mg/L (4h).
	LD50, oral, Rat: 5045 mg/kg bw (RTECS). LD50, dermal, Rat: 12800 mg/kg bw (IUCLID).
1 - <15	Ethanol, CAS: 64-17-5
	NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451).
	LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403).
	LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402). LD50, oral, Rat: 10470 mg/kg (OECD 401).
1 - <10	Octamethyltrisiloxane, CAS: 107-51-7
	LC50, inhalative, Rat: > 22,6 mg/l 4h.
	LD50, oral, Rat: > 2000 mg/kg.

<b>Acute oral toxicity</b>	not determined
<b>Acute dermal 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>	The toxicological data are those of the pure product. 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.

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

Range [%]	Substance
0,1 - <1	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	Propan-2-ol, CAS: 67-63-0
	EC50, (72h), Scenedesmus subspicatus: >1000 mg/L (IUCLID).
	EC50, (48h), Daphnia magna: 13299 mg/L (IUCLID).
	LC50, (96h), Pimephales promelas: 9640 mg/L (IUCLID).
1 - <15	Ethanol, CAS: 64-17-5
	LC50, (48h), Daphnia magna: 12340 mg/l.
	EC50, (72h), Algae: 275 mg/l (OECD 201).
	EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201).
	LC50, (96h), Oncorhynchus mykiss: 13000 mg/l (OECD 203).

Fish toxicity not determined

Daphnia toxicity not determined

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Bacteria toxicity not determined

Biological degradability not determined

COD not determined

BOD 5 not determined

AOX-advice not applicable

2006/11/EC: not applicable

Other adverse effects The product was classified 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>	For recycling, consult manufacturer. Disposal in an incineration plant in accordance with the regulations of the local authorities.
<b>Contaminated packaging</b>	Uncontaminated packaging may be taken for recycling.
<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.






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**SECTION 14: Transport information**

<b>Transport by land according to ADR/RID</b>	UN 1993 Flammable liquid, n.o.s. (Octamethyltrisiloxane, Ethanol) 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. (Octamethyltrisiloxane, Ethanol) 3 III
- Classification Code	F1
- Label	
<b>Marine transport in accordance with IMDG</b>	UN 1993 Flammable liquid, n.o.s. (Octamethyltrisiloxane, Ethanol) 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. (Octamethyltrisiloxane, Ethanol-mixture) 3 III
- Label	
<b>DOT Road Shipment Information (49 CFR)</b>	UN/NA 1993 Flammable liquid, n.o.s. (Octamethyltrisiloxane, Ethanol) 3 III
- Label	

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**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 is not classified as hazardous under SARA 302.

- SARA, 311

This product is not classified as hazardous under SARA 311.

- SARA, 313

One or some ingredient(s) are listed under this regulation.

- 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 determined

**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 determined

**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

**Contains:**

Glyoxylic acid EINECS: 206-058-5

**Hazard statements**

H226 Flammable liquid and vapour.  
EUH208 May produce an allergic reaction.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**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**

S 23.4: Do not breathe spray.  
S 51: Use only in well-ventilated areas.  
S 60: This material and its container must be disposed of as hazardous waste.

**Special labelling**

WARNING

**Emergency Overview**

FLAMMABLE LIQUID AND VAPOR  
MAY CAUSE ALLERGIC SKIN REACTION.

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**SECTION 16: Other information**

**Observe employment restrictions for people** yes  
**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>0</b>	0 - Minimal Hazard
<b>PERSONAL PROTECTION</b>	<b>X</b>	X - Personal protection rating to be supplied by user depending on use conditions

**NFPA Ratings**

<b>3</b>	TOP, FLAMMABILITY: 3 - Severe Hazard	
<b>1 0</b>	LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard	
<b>FLL</b>	BOTTOM, SPECIAL NOTICE: FLL - Flammable Liquid	

**Modified position** none

**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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