

GW Kerasilk Control Smoothing Fluid
Article number 265204-75ml / 265267-10x7ml
KAO USA Inc.
Cincinnati, Ohio 45214

Date printed 06.08.2015, Revision 05.08.2015

Version 01

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

1.1 Product identifier

GW Kerasilk Control Smoothing Fluid
Article number 265204-75ml / 265267-10x7ml

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

Flam. Liq. 4: H227 Combustible Liquid.

2.2 Label elements

The product is required to be labelled in accordance with GHS/CLP-Directives.
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 Material will burn in fire.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|-----------|---|
| 10 - 15 | Octamethyltrisiloxane CAS: 107-51-7, EINECS/ELINCS: 203-497-4, Reg-No.: 01-2119970219-31-XXXX |
| 10 - 15 | Decamethylcyclopentasiloxane CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX |
| 1 - < 1,5 | Silsesquioxane, phenyl trimethylsilyloxy-terminated CAS: 70131-69-0, Reg-No.: 01-2119974594-23-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. |
| Inhalation | Ensure supply of fresh air. In the event of symptoms seek 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. |

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.

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 Water spray jet.
Dry powder.
Carbon dioxide.
Foam.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (f.ex. diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

The product is combustible.

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

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Keep container tightly closed.

Protect from heat/overheating.

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)

| Range [%] | Substance |
|-----------|---|
| 10 - 15 | Octamethyltrisiloxane |
| | CAS: 107-51-7, EINECS/ELINCS: 203-497-4, Reg-No.: 01-2119970219-31-XXXX |
| | Long-term exposure: 200 ppm, TWA, DCC OEL |
| 10 - 15 | Decamethylcyclopentasiloxane |
| | CAS: 541-02-6, EINECS/ELINCS: 208-764-9, Reg-No.: 01-2119511367-43-XXXX |
| | Long-term exposure: 10 ppm, TWA - DCC OEL |

DNEL

| Range [%] | Substance |
|-----------|---|
| 10 - 15 | Decamethylcyclopentasiloxane, CAS: 541-02-6 |
| | Industrial, inhalative, Acute - systemic effects: 97,3 mg/m ³ . |
| | Industrial, inhalative, Long-term - systemic effects: 97,3 mg/m ³ . |
| | Industrial, inhalative, Acute - local effects: 24,2 mg/m ³ . |
| | Industrial, inhalative, Long-term - local effects: 24,2 mg/m ³ . |
| | general population, oral, Long-term - systemic effects: 5 mg/kg bw/d. |
| | general population, inhalative, Acute - systemic effects: 17,3 mg/m ³ . |
| | general population, inhalative, Long-term - systemic effects: 17,3 mg/m ³ . |
| | general population, inhalative, Acute - local effects: 4,3 mg/m ³ . |
| | general population, inhalative, Long-term - local effects: 4,3 mg/m ³ . |
| | general population, oral, Acute - systemic effects: 5 mg/kg bw/d. |
| 1 - < 1,5 | Silsesquioxane, phenyl trimethylsilyloxy-terminated, CAS: 70131-69-0 |
| | Industrial, dermal, Long-term - systemic effects: 10 mg/kg bw/d. |
| | Industrial, inhalative, Long-term - systemic effects: 71 mg/m ³ . |
| | Industrial, dermal, Acute - systemic effects: 10 mg/kg bw/d. |
| | Industrial, inhalative, Acute - systemic effects: 71 mg/m ³ . |
| | general population, oral, Long-term - systemic effects: 5 mg/kg bw/d. |
| 10 - 15 | Octamethyltrisiloxane, CAS: 107-51-7 |
| | Industrial, inhalative (mist), Long-term - systemic effects: 78 mg/m ³ . |
| | Industrial, dermal, Acute - systemic effects: 11 mg/kg bw/d. |
| | Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/d. |
| | Industrial, inhalative (mist), Acute - systemic effects: 78 mg/m ³ . |
| | general population, oral, Acute - systemic effects: 0,04 mg/kg bw/d. |
| | general population, inhalative (mist), Long-term - systemic effects: 19 mg/m ³ . |
| | general population, inhalative (mist), Acute - systemic effects: 19 mg/m ³ . |
| | general population, dermal, Acute - systemic effects: 5,6 mg/kg bw/d. |
| | general population, oral, Long-term - systemic effects: 0,04 mg/kg bw/d. |
| | general population, dermal, Long-term - systemic effects: 5,6 mg/kg bw/d. |

PNEC

| Range [%] | Substance |
|-----------|---|
| 10 - 15 | Decamethylcyclopentasiloxane, CAS: 541-02-6 |
| | sewage treatment plants (STP), > 10 mg/l. |
| | soil, 3,34 mg/kg dw. |
| | sediment (seaater), 0,239 mg/kg dw. |
| | sediment (freshwater), 2,39 mg/kg dw. |

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

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| | |
|-----------|--|
| | seawater, 0,00012 mg/l. |
| | freshwater, 0,0012 mg/l. |
| 1 - < 1,5 | Silsesquioxane, phenyl trimethylsilyloxy-terminated, CAS: 70131-69-0 |
| | sediment (seaater), 0,0369 mg/kg dw. |
| | sediment (freshwater), 0,369 mg/kg dw. |
| | sewage treatment plants (STP), 100 mg/l. |
| | seawater, 0,00007 mg/l. |
| | freshwater, 0,0007 mg/l. |
| 10 - 15 | Octamethyltrisiloxane, CAS: 107-51-7 |
| | sewage treatment plants (STP), > 1 mg/l. |
| | soil, > 0,44 mg/kg dw. |
| | sediment (seaater), 0,17 mg/kg dw. |
| | sediment (freshwater), 1,8 mg/kg dw. |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. |
| Eye protection | Not required under normal conditions. If there is a risk of splashing: Safety glasses. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. Not required under normal conditions. In full contact: ca. 0,4 mm: butyl rubber, > 120 min (EN 374) |
| Skin protection | None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. Avoid contact with eyes. |
| Respiratory protection | Not required under normal conditions. |
| 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 | liquid |
| Color | whitish |
| Odor | characteristic |
| Odour threshold | not applicable |
| pH-value | 3,8 - 5,7 |
| pH-value [1%] | not determined |
| Boiling point [°C] | not determined |
| Flash point [°C] | > 70 |
| Flammability [°C] | not determined |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Oxidizing properties | no |
| Vapour pressure/gas pressure [kPa] | not determined |
| Density [g/ml] | 0,9664 - 0,9704 (20 °C / 68,0 °F) |
| Bulk density [kg/m ³] | not applicable |
| Solubility in water | miscible |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | 20000 - 55000 mPas (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

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

Formation of Formaldehyde during the thermal decomposition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Range [%] | Substance |
|-----------|--|
| 10 - 15 | Decamethylcyclopentasiloxane, CAS: 541-02-6 |
| | LC50, inhalative, Rat: 8,67 mg/l/4h. |
| | LC50, inhalative, Rat: > 24100 mg/kg bw. |
| 1 - < 1,5 | Silsesquioxane, phenyl trimethylsilyloxy-terminated, CAS: 70131-69-0 |
| | LD50, dermal, Rabbit: > 2000 mg/kg. |
| | LC50, inhalative, Rat: 0,467 mg/l 4h dust/mist. |
| 10 - 15 | Octamethyltrisiloxane, CAS: 107-51-7 |
| | LD50, dermal, Rat: > 2000 mg/kg bw. |
| | LD50, oral, Rat: > 2000 mg/kg. |
| | LC50, inhalativ (vapour), Rat: > 2350ppm/4h. |

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled.

Skin corrosion/irritation [Single Patch Test (1x 24h)]:IS= 0,1 (100%)

Respiratory or skin sensitisation Based on the information available, the classification criteria have not been fulfilled.

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.

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 an

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| | |
|--------------------------------------|--|
| Product | Coordinate disposal with the authorities if necessary. |
| Contaminated packaging | Uncontaminated packaging may be taken for recycling. |
| 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 NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 CFR) UN/NA NA1993 Combustible liquid, n.o.s.

Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

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

not applicable

SECTION 15: Regulatory information

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

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

NFPA Ratings

| | |
|-----|---|
| 2 | TOP, FLAMMABILITY: 2 - Moderate Hazard |
| 1 0 | LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal 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

| | |
|--------------------------|--|
| Customs Tariff | not determined |
| Classification procedure | Flam. Liq. 4: H227 Combustible Liquid. (On basis of test data) |
| Modified position | none |