

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

1.1 Product identifier

**GW Kerasilk Repower Volume Intensifying Post Treatment
Article number 265235-125ml**

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. 2: H225 Highly flammable liquid and vapour.

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

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

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 |
|-----------|--|
| 35 - 45 | Ethanol |
| | CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX |
| 1 - < 5 | Propan-2-ol |
| | CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX |
| 0,1 - < 1 | Polyquaterium 11 |
| | CAS: 53633-54-8, EINECS/ELINCS: Polymer |
| 0,1 - < 1 | 1,4-Dioxacycloheptadecane-5,17-dione |
| | CAS: 105-95-3, EINECS/ELINCS: 203-347-8 |

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

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

Consult a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

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

Alcohol-resistant foam.
Dry powder.
Carbon dioxide.
Water spray jet.

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.

Keep away from all sources of ignition.

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 with absorbent material (e.g. general-purpose binder).

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.

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.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

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 |
|-----------|--|
| 35 - 45 | Ethanol |
| | CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX |
| | Long-term exposure: 1000 ppm, 1900 mg/m ³ , OSHA, NIOSH |
| 1 - < 5 | Propan-2-ol |
| | CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX |
| | Long-term exposure: 200 ppm, 500 mg/m ³ , INRS, NIOSH |

DNEL

| Range [%] | Substance |
|-----------|---|
| 1 - < 5 | Propan-2-ol, CAS: 67-63-0 |
| | Industrial, dermal, Long-term - systemic effects: 888 mg/kg. |
| | Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ . |
| | general population, oral, Long-term - systemic effects: 26 mg/kg. |
| | general population, inhalative, Long-term - systemic effects: 89 mg/m ³ . |
| | general population, dermal, Long-term - systemic effects: 319 mg/kg. |
| 35 - 45 | Ethanol, CAS: 64-17-5 |
| | Industrial, inhalative, Long-term - systemic effects: 950 mg/m ³ . |
| | Industrial, inhalative, Acute - local effects: 1900 mg/m ³ . |
| | Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/d. |
| | general population, inhalative, Long-term - systemic effects: 114 mg/m ³ . |
| | general population, inhalative, Acute - local effects: 950 mg/m ³ . |
| | general population, dermal, Long-term - systemic effects: 206 mg/kg bw/d. |
| | general population, oral, Long-term - systemic effects: 87 mg/kg bw/d. |

PNEC

| Range [%] | Substance |
|-----------|-----------------------------------|
| 1 - < 5 | Propan-2-ol, CAS: 67-63-0 |
| | soil, 28 mg/kg. |
| | sediment (seawater), 552 mg/kg. |
| | sediment (freshwater), 552 mg/kg. |
| | seawater, 140,9 mg/l. |
| | freshwater, 140,9 mg/l. |
| 35 - 45 | Ethanol, CAS: 64-17-5 |
| | oral (food), 0,72 mg/kg. |
| | soil, 0,63 mg/kg. |
| | sediment (freshwater), 3,6 mg/kg. |
| | seawater, 0,79 mg/l. |
| | freshwater, 0,96 mg/l. |

8.2 Exposure controls

| | |
|--|--|
| Additional advice on system design | Ensure adequate ventilation on workstation. |
| Eye protection | If there is a risk of splashing: Safety glasses. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: butyl rubber, > 120 min (EN 374) |
| Skin protection | None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes. Do not inhale vapours. |
| Respiratory protection | not applicable |
| Thermal hazards | none |
| Delimitation and monitoring of the environmental exposition | See SECTION 6+7. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Form | liquid |
| Color | colourless |
| Odor | characteristic |
| Odour threshold | not applicable |
| pH-value | 3,7 - 5,3 |
| pH-value [1%] | not determined |
| Boiling point [°C] | not determined |
| Flash point [°C] | 22,0 - 26,0 / 71,6 - 78,8°F |
| 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] | 0,9356 - 0,9396 (20 °C / 68,0 °F) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | miscible |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | not determined |
| Relative vapour density determined in air | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Autoignition temperature [°C] | not applicable |
| Decomposition temperature [°C] | not determined |

9.2 Other information

Refractometer factor: 1,3596 - 1,3606

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

See SECTION 7.2.

Strong heating.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Range [%] | Substance |
|-----------|---|
| 0,1 - < 1 | 1,4-Dioxacycloheptadecane-5,17-dione, CAS: 105-95-3 |
| | LD50, dermal, Rabbit: >5000 mg/kg bw (Lit.). |
| | LD50, oral, Rat: >5000 mg/kg bw (Lit.). |
| 0,1 - < 1 | Polyquaterium 11, CAS: 53633-54-8 |
| | LD50, oral, Rat: 12800 mg/kg. |
| 1 - < 5 | Propan-2-ol, CAS: 67-63-0 |
| | LD50, dermal, Rabbit: 12800 mg/kg (RTECS). |
| | LD50, oral, Rat: 5045 mg/kg (RTECS). |
| | LC50, inhalative, Rat: 46,5 mg/l (4h). |
| | LDLo, oral, Human: 3570 mg/kg (RTECS). |
| 35 - 45 | Ethanol, CAS: 64-17-5 |
| | LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402). |
| | LD50, oral, Rat: 10470 mg/kg (OECD 401). |
| | LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403). |
| | NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451). |

| | |
|---|--|
| 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 (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

| Range [%] | Substance |
|--|--|
| 0,1 - < 1 | Polyquaterium 11, CAS: 53633-54-8 |
| | LC50, (96h), Oncorhynchus mykiss: 4,47 mg/l. |
| | EC50, (48h), Daphnia magna: 177,1 mg/l. |
| 1 - < 5 | Propan-2-ol, CAS: 67-63-0 |
| | LC50, (96h), Lepomis macrochirus: 1400 mg/l (ECOTOX Database). |
| | EC50, (48h), Daphnia magna: 13299 mg/l (IUCLID). |
| | IC50, (72h), Desmodemus subspicatus: >1000 mg/l (IUCLID). |
| | EC5, (16h), Pseudomonas putida: 1050 mg/l (Lit.). |
| 35 - 45 | EC5, (72h), fish: 4930 mg/l (Lit.). |
| | Ethanol, CAS: 64-17-5 |
| | LC50, (96h), Oncorhynchus mykiss: 13000 mg/l (OECD 203). |
| | LC50, (48h), Daphnia magna: 12340 mg/l. |
| EC50, (72h), Algae: 275 mg/l (OECD 201). | |
| EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201). | |

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

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| | |
|-------------------------------|--|
| Product | For recycling, consult manufacturer. Disposal in an incineration plant in accordance with the regulations of the local authorities. |
| 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 UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 II

- Classification Code F1

- Label



Marine transport in accordance with IMDG UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 II

- EMS

F-E, S-E

- Label



- IMDG LQ

1 I

DOT Road Shipment Information (49 CFR) UN/NA 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol) 3 II

- Label



Air transport in accordance with IATA UN 1993 Flammable liquid, n.o.s. (Ethanol, Isopropanol-mixture) 3 II

- 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

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 is not classified as hazardous under SARA 302.

- SARA, 311

This product is 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

not determined

National Toxicology Program - NTP
HAP-VOC

not determined

VOC-content: ~ 41 %

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 | 3 | 3 - Severe 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

| |
|---------------------|
| 3 |
| 1 0 |
| FLL |

TOP, FLAMMABILITY: 3 - Severe Hazard

LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard

BOTTOM, SPECIAL NOTICE: FLL - Flammable Liquid

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 | Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data) |
| Modified position | none |

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