

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/17/2018

Reviewed on 04/17/2018

## 1 Identification

- **Product identifier**
- **Trade name: GOLDWELL STYLESIGN Perfect Hold, Big Finish 4**
- **Article number:** 227588 - 50ml / 227598 - 100ml / 227506 - 300ml / 227508 - 500ml
- **Product category** PC39 Cosmetics, personal care products
- **Application of the substance / the mixture** Hair cosmetics
- **Manufacturer/Supplier:**  
Kao USA Inc.  
2535 Spring Grove Avenue  
Cincinnati, Ohio 45214 / USA  
KaoGermanySDS@kao.com
- **Information department:** CHEMTREC
- **Emergency telephone number:**  
CHEMTREC (US): (0800) 424-9300  
CHEMTREC (Outside US): +1 (703) 527-3887 (24h)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Aerosol 1 H222 Extremely flammable aerosol.

- **Label elements**
- **Hazard pictograms**



GHS02

- **Signal word** Danger
- **Hazard statements**  
H222 Extremely flammable aerosol.
- **Precautionary statements**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 3

- **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 3

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64-17-5	ethanol	 Flam. Liq. 2, H225	≥30-<50%
CAS: 75-37-6	1,1-difluoroethane	 Press. Gas, H280	30-50%
CAS: 115-10-6	dimethyl ether	 Flam. Gas 1, H220  Press. Gas, H280	10%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:** Treat symptomatically.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water spray  
Alcohol resistant foam  
BC powder  
ABC powder  
Carbon dioxide  
Water spray, water fog, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>)
- **For safety reasons unsuitable extinguishing agents:** Full water yet, non-alcohol-resistant foam
- **Special hazards arising from the substance or mixture**  
Vapors can form a highly flammable mixture with air  
There is an overpressure. Fire or strong heat can cause violent rupture of packing.  
Hazardous thermal decomposition products:  
Hydrogen fluoride; fluorinated ingredients, carbon oxides,  
Inhalation of decomposition products can cause health damage.  
Formation of explosive gas-air mixtures.  
Extreme generation of heat in the case of larger fires.
- **Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
In case of fire, wear self-contained breathing equipment. Use personal protective equipment. Wear neoprene gloves during cleaning up work after a fire.
- **Additional information**  
Cool containers/ tanks with water spray. Allow to burn until the outflow can be stopped.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.

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- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

**CAS: 115-10-6 dimethyl ether (10%)**

**WEEL** Long-term value: 1000 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Not required under normal conditions. The details concerned are recommendations.

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. - Please contact the glove supplier for further information.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**· Eye protection:**


Not required under normal conditions  
If there is a risk of splashing: safety glasses

### 9 Physical and chemical properties

**· Information on basic physical and chemical properties**
**· General Information**
**· Appearance:**

**Form:** Aerosol  
**Color:** According to product specification

**· Odor:** Characteristic

**· Odor threshold:** Not determined.

**· pH-value:** Not determined.

**· Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Not applicable, as aerosol.

**· Flash point:** Not applicable, as aerosol.

**· Flammability (solid, gaseous):** Not applicable.

**· Decomposition temperature:** Not determined.

**· Auto igniting:** Product is not selfigniting.

**· Danger of explosion:** Not determined.

**· Vapor pressure at 20 °C (68 °F):** 5200 hPa (3,900.3 mm Hg)

**· Density at 20 °C (68 °F):** 0.8395 g/cm<sup>3</sup> (7.00563 lbs/gal)

**· Relative density** Not determined.

**· Vapor density** Not determined.

**· Evaporation rate** Not applicable.

**· Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

**· Partition coefficient (n-octanol/water):** Not determined.

**· Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**· Solvent content:**

**Organic solvents:** 55.6 %

**Water:** 4.9 %

**VOC content:** 53.07 %

**Solids content:** 5.3 %

**· Other information** No further relevant information available.

### 10 Stability and reactivity

**· Reactivity** Extremely flammable gas. Hazardous polymerization does not take place.

**· Chemical stability** The product is stable under standard conditions.

**· Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

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- **Possibility of hazardous reactions**  
*Reacts with alkaline metals.*  
*Reacts with earth alkaline metals.*  
*Reactions with acids and strong oxidizing agents*  
*Vapors can form a highly flammable mixture with air.*
- **Conditions to avoid** *Material is stable. Avoid open flames and high temperatures*
- **Incompatible materials:**  
*Alkali metals, Alkaline earth metals, Powdered metals, powdered metal salts*
- **Hazardous decomposition products:**  
*Decomposition products are hazardous. This material can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and possibly carbonyl fluoride.*

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *No irritant effect.*
- **on the eye:** *No irritating effect.*
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 64-17-5	ethanol	1
CAS: 67-63-0	isopropyl alcohol	3
CAS: 97-53-0	Eugenol	3

- **NTP (National Toxicology Program)**

*None of the ingredients is listed.*

- **OSHA-Ca (Occupational Safety & Health Administration)**

*None of the ingredients is listed.*

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behavior in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

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.	subdivision of class 2.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· <b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients is listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
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CAS: 67-63-0 isopropyl alcohol
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· <b>TSCA (Toxic Substances Control Act):</b>
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All ingredients are listed.
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· <b>Proposition 65</b>
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· <b>Chemicals known to cause cancer:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
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CAS: 64-17-5 ethanol
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· <b>Carcinogenic categories</b>
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· <b>EPA (Environmental Protection Agency)</b>
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CAS: 65-85-0 Benzoic acid	D
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· <b>TLV (Threshold Limit Value established by ACGIH)</b>
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CAS: 64-17-5 ethanol	A3
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CAS: 67-63-0 isopropyl alcohol	A4
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients is listed.
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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- **Relevant phrases**

*H220 Extremely flammable gas.*

*H225 Highly flammable liquid and vapor.*

*H280 Contains gas under pressure; may explode if heated.*

- **Department issuing SDS: Regulatory Affairs**

- **Date of preparation / last revision 04/17/2018 / -**

- **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Flam. Gas 1: Flammable gases – Category 1*

*Flam. Aerosol 1: Aerosols – Category 1*

*Press. Gas: Gases under pressure – Compressed gas*

*Press. Gas: Gases under pressure – Liquefied gas*

*Flam. Liq. 2: Flammable liquids – Category 2*

- **\* Data compared to the previous version altered.**

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