

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

### 1 Identification

- **Product identifier**
- **Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**
- **Article number:** 227514 - 300ml / 227516 - 500ml / 227636 - 50ml
- **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-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
- STOT SE 3      H336      May cause drowsiness or dizziness.
- Asp. Tox. 1      H304      May be fatal if swallowed and enters airways.

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



GHS02   GHS07   GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
pentane
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.  
H336      May cause drowsiness or dizziness.  
H304      May be fatal if swallowed and enters airways.
- **Precautionary statements**  
P210      Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P251      Do not pierce or burn, even after use.  
P211      Do not spray on an open flame or other ignition source.  
P261      Avoid breathing dust/fume/gas/mist/vapors/spray  
P271      Use only outdoors or in a well-ventilated area.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312      Call a POISON CENTER/doctor if you feel unwell.  
P331      Do NOT induce vomiting.  
P405      Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501      Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 4  
Reactivity = 3

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



HEALTH 0 Health = 0  
FIRE 4 Fire = 4  
REACTIVITY 3 Reactivity = 3

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

### 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	25-50%
CAS: 75-37-6	1,1-difluoroethane	Press. Gas, H280	25-50%
CAS: 109-66-0	pentane	  	10-30%

### 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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

US

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 2)

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
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.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material.
- **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:** Keep receptacle tightly sealed.
- **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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

#### CAS: 64-17-5 ethanol (25-50%)

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

#### CAS: 109-66-0 pentane (10-30%)

PEL	Long-term value: 2950 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> , 120 ppm
	Ceiling limit value: 1800* mg/m <sup>3</sup> , 610* ppm
	*15-min
TLV	Long-term value: 2950 mg/m <sup>3</sup> , 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.

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 3)

· **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.

· **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 at 20 °C (68 °F):**

9

· **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Not applicable, as aerosol.

· **Flash point:**

17 °C (63 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Vapor pressure at 20 °C (68 °F):**

5100 hPa (3825 mm Hg)

· **Density at 20 °C (68 °F):**

0.8555 g/cm<sup>3</sup> (7.139 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.

(Contd. on page 5)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 4)

- |                            |  |
|----------------------------|--|
| <b>· Viscosity:</b>        |  |
| <b>Dynamic:</b>            | Not determined.                            |
| <b>Kinematic:</b>          | Not determined.                            |
| <b>· Solvent content:</b>  |  |
| <b>Organic solvents:</b>   | 55.6 %                                     |
| <b>Water:</b>              | 6.5 %                                      |
| <b>VOC content:</b>        | 54.61 %                                    |
| <b>Solids content:</b>     | 4.8 %                                      |
| <b>· Other information</b> | No further relevant information available. |

### 10 Stability and reactivity

- **Reactivity** No dangerous reactions known if used as directed.
- **Chemical stability** The product is stable under standard conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 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:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

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

CAS: 64-17-5	ethanol	1
CAS: 67-63-0	isopropyl alcohol	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.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	Aerosols, flammable AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, IMDG, IATA</b></li> </ul>	-
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Danger code (Kemler):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Code</b></li> </ul>	Warning: Gases - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
<ul style="list-style-type: none"> <li>· <b>Segregation Code</b></li> </ul>	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/09/2016

Reviewed on 12/09/2016

**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 6)

	with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate 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**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 67-63-0 isopropyl alcohol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

CAS: 64-17-5 ethanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

CAS: 64-17-5 ethanol

A3

CAS: 67-63-0 isopropyl alcohol

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

US

(Contd. on page 8)

# Safety Data Sheet

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**Trade name: GW STYLESIGN PERFECT HOLD Lustrous Hair Spray**

(Contd. of page 7)

### 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.*

· **Relevant phrases**

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

· **Department issuing SDS: Regulatory Affairs**

· **Date of preparation / last revision 12/09/2016 / -**

· **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)

HMS: 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. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Liquefied gas

Flam. Liq. 2: Flammable liquids – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1