

## SAFETY DATA SHEET

ISSUANCE DATE: September 1, 2015

SDS #30-31-003-0

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

L'Oreal USA Products, Inc.  
111 Terminal Avenue  
Clark, NJ 07066

L'Oreal Canada  
4895 rue Hickmore  
Ville St-Laurent, H4Y 1K5  
Canada

#### Emergency Telephone Number

1-800-535-5053 US (International: 352-323-3500)  
In Canada – 1-613-996-6666 (Canutec) (\*666 cellular)

#### For further information:

1-732-499-2741

**Poison Control Number:** 412-390-3326


**Product Name:** L'Oreal Pro Hair Style Curve Delight

**Recommendations on use:** Personal care product to be applied to the hair for cosmetic enhancement.

**Restrictions on use:** Avoid fire, flame, heat and other sources of ignition. For external use only. Use only as directed.

### SECTION 2: HAZARDS IDENTIFICATION

**Signal word:** WARNING

| Symbol                                                                              | Classification                  | Hazard Statement              | Prevention Statements                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|---------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Flammable Liquids<br>Category 3 | Flammable liquid<br>and vapor | <ul style="list-style-type: none"> <li>• Keep away from heat, sparks, open flames and hot surfaces. No smoking.</li> <li>• Keep container tightly closed.</li> <li>• Ground/bond container and receiving equipment.</li> <li>• Use explosion-proof electrical, ventilating, lighting, manufacturing and packaging equipment.</li> <li>• Use only non-sparking tools.</li> <li>• Take precautionary measures against static discharge.</li> <li>• Wear nitrile or vinyl gloves</li> </ul> |

This material is considered hazardous by the US Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200)

**General Precautionary Statements:** Keep out of reach of children. Read label/insert before use. Possible skin dryness/irritation if over-exposed.

**Hazards Not Otherwise Classified:** None.



Product Name: L'Oreal Pro Hair Style Curve Delight

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

| INGREDIENT:               | CAS NO.  | % WT    |
|---------------------------|----------|---------|
| Oil Phase – 20%           |          |         |
| Cyclopentasiloxane        | 541-02-6 | ≤ 89.0% |
| Ethyl Alcohol             | 64-17-5  | ≤ 5.0%  |
| Aqueous phase – 80%       |          |         |
| No Hazardous constituents |          |         |

### SECTION 4: FIRST AID MEASURES

#### Response Statements:

**IF IN EYES:** If eye irritation occurs: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing until material is sufficiently removed from the eye. **If eye irritation persists:** Get medical advice/attention.

**IF ON SKIN:** If skin irritation occurs: Take off immediately all contaminated clothing. Rinse skin with water/shower. **If skin irritation persists:** Get medical attention.

**IF INHALED:** Remove victim to fresh air and keep comfortable for breathing. Call a Poison Control Center if you feel unwell.

**IF SWALLOWED:** Do not induce vomiting. Never give anything by mouth to an unconscious individual. Consult a physician or Poison Control Center immediately.

**SYMPTOMS/EFFECTS:** Possible skin dryness/irritation if over-exposed.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Consult product labeling. No special advice.

### SECTION 5: FIRE-FIGHTING MEASURES

#### **Notes for Non-Emergency Personnel:**

**EXTINGUISHING MEDIA:** In case of fire: Use carbon dioxide, dry chemical and/or foam for extinction. Water spray may be used to soak other materials surrounding the product, to prevent the spread of the fire. Selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved. Please review the tools available at your location to ensure proper availability of equipment.

#### **Notes for those trained to participate in an emergency:**

**SPECIAL FIRE FIGHTING PROCEDURES:** Treat as flammable liquid. Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response. Minimize all sources of static electricity.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Observe all appropriate precautions for handling flammable materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal degradation may produce oxides of carbon, nitrogen, hydrocarbons, and/or derivatives.

---

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

### **Notes for non-emergency personnel:**

Consult trained response personnel for clean-up of large spills or locations where providing preliminary control of the chemical release is hazardous. Hazardous locations include areas where ignition sources cannot be controlled. Isolate the area and deny entry to unnecessary and unprotected personnel. Sections 2, 5, 7 and 8 of this document should be consulted upon use of material, to become knowledgeable of the material's hazards and how to control risks associated with handling flammable liquids.

If the location is not hazardous and only a small amount of material is released, control the spill using absorbent pads while wearing the protective equipment as noted below. Clean the area with detergent and water. Prohibit discharge to drains, soil, surface and ground waters. Dispose in accordance with Section 13 of this document.

**PERSONAL PROTECTIVE EQUIPMENT:** Nitrile or vinyl gloves, safety glasses/goggles, protective clothing (e.g. apron) may be required for clean-up of large spills. Respiratory protection is typically not necessary, but may be used depending upon the size of the spill and occupational exposure limits. Respiratory protection may include the use of organic vapor cartridges. Refer to Section 8 for additional information.

### **Notes for those trained to participate in an emergency:**

**ACCIDENTAL RELEASE MEASURES:** Eliminate all sources of ignition. Dike and contain the free liquid and absorb on vermiculite or spill pillows/pads. Place spent absorbents in UN specification drums for disposal. All precautions associated with controlling a flammable liquid should be employed during clean-up. Wash area completely with water. Take care to avoid contact with wet surfaces or walkways that may become slick when residue is present. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. Non-sparking tools should be utilized in all clean-up associated with flammable liquids. Dispose in accordance with section 13 of this document.

---

## **SECTION 7: HANDLING AND STORAGE**

---

### **PRECAUTIONS FOR SAFE HANDLING:**

Do not eat, drink or smoke while working with hazardous materials. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Do not expose to heat or flame. All manufacturing should be performed indoors, in an enclosed environment free from uncontrolled ignition sources. Employees should be advised not to handle flammable products in close proximity to incompatible materials. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

Maintain a clean work environment which includes use of properly functioning containers, proper housekeeping practices.

### **CONDITIONS FOR SAFE STORAGE:**

**Storage precautions for unpackaged product (manufacturing environment):** Store in a well-ventilated place and keep cool. Keep containers closed when not in use. Minimize inventory. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Appropriate fire suppression and detection equipment should be utilized. Store on spill pallets or other locations where spill containment will be easily accessible.

**Storage precautions for packaged product:** See consumer packaging. Store at controlled room temperature of 68-77°F (20-25°C).

Keep away from open drains and access to the environment.



**Product Name: L'Oreal Pro Hair Style Curve Delight**

**Incompatible materials:** Oxidizing agents. Store away from incompatible materials.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**CONTROL PARAMETERS** – These criteria have been published by the referenced authority to establish exposure limits in the work environment. Employee work areas should be monitored to ensure that permissible limits are not exceeded during the work day. These references do not coincide with product use. These references are meant to be in association with the manufacturing environment.

### **OCCUPATIONAL EXPOSURE VALUES:**

| Component Name (CAS-No.)                              | Reference | TWA |                   | STEL/CEILING |                   |
|-------------------------------------------------------|-----------|-----|-------------------|--------------|-------------------|
|                                                       |           | ppm | mg/m <sup>3</sup> | ppm          | mg/m <sup>3</sup> |
| No OEVs have been established for noted constituents. | OSHA PEL  | --  | --                | --           | --                |
|                                                       | ACGIH TLV | --  | --                | --           | --                |
|                                                       | NIOSH REL | --  | --                | --           | --                |

No occupational exposure values have been published for other constituents noted in Section 3.

**WORK HYGIENIC PRACTICES:** Ensure all work surfaces are maintained, to prevent contamination.

**ENGINEERING CONTROLS:** None required for product use. For handling large quantities of material, such as in the manufacturing of product, ventilation should be utilized. This ventilation should be compatible with the control of flammable materials. Exhaust ventilation should be utilized to maintain air concentrations of material below the occupational exposure guidelines noted above.

Local exhaust ventilation is not typically required for product use. For handling large quantities of material, such as in the manufacturing of product -- Local Exhaust: Explosion proof. Mechanical (general): Explosion proof.

**PERSONAL PROTECTIVE EQUIPMENT:** Consistent with good hygiene practices, personal protective equipment (PPE) should be used in conjunction with other control measures including engineering controls, ventilation and isolation. See also Section 5 of this document for PPE advice, in the event of an emergency.

**Eye/Face Protection (Non-Emergency):** None required for product use. For handling of large quantities of liquid material, safety glasses with side shields/goggles are recommended.

**Skin Protection (Non-Emergency):** None required for product use. For handling large quantities of material, such as in product manufacturing, nitrile or vinyl gloves should be considered for use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

**Respiratory Protection (Non-Emergency):** Respiratory protection is not required for product use. For manufacturing of product, respiratory protection may be considered. Ensure that the respirator meets current local occupational health and safety standards. Organic vapor cartridges should be utilized with filtering respiratory protection.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Biphasic Clear liquid

**ODOR:** Alcohol

**ODOR THRESHOLD:** Not Available



**Product Name: L'Oreal Pro Hair Style Curve Delight**

|                                               |                                  |                                             |
|-----------------------------------------------|----------------------------------|---------------------------------------------|
| <b>pH:</b>                                    | Not Available                    |                                             |
| <b>MELTING/FREEZING POINT:</b>                | <b>F:</b> Not Available          | <b>C:</b> Not Available                     |
| <b>BOILING POINT:</b>                         | <b>F:</b> 173 (as ethanol)       | <b>C:</b> 78.3 (as ethanol)                 |
| <b>FLASH POINT:</b>                           | <b>F:</b> 59                     | <b>C:</b> 15 <b>METHOD USED:</b> Closed Cup |
| <b>EVAPORATION RATE:</b>                      | Not Available                    |                                             |
| <b>FLAMMABILITY:</b>                          | Non Applicable to Liquids        |                                             |
| <b>FLAMMABLE LIMITS IN AIR:</b>               | ETHYL ALCOHOL: 19% UEL; 3.3% LEL |                                             |
| <b>VAPOR PRESSURE (mm Hg):</b>                | Not Available                    |                                             |
| <b>VAPOR DENSITY (AIR = 1):</b>               | Not Available                    |                                             |
| <b>RELATIVE DENSITY (H<sub>2</sub>O = 1):</b> | Not Available                    |                                             |
| <b>SOLUBILITY IN WATER:</b>                   | Not Available                    |                                             |
| <b>PARTITION COEFFICIENT:</b>                 | Not Available                    |                                             |
| <b>AUTOIGNITION TEMPERATURE:</b>              | Not Available                    |                                             |
| <b>DECOMPOSITION TEMPERATURE:</b>             | Not available                    |                                             |
| <b>VISCOSITY:</b>                             | Not Available                    |                                             |

---

## SECTION 10: STABILITY AND REACTIVITY

---

**REACTIVITY:** Material is not considered reactive under typical handling and storage conditions.

**STABILITY:** Product is stable.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None known. Hazardous polymerization is not expected to occur.

**CONDITIONS TO AVOID:** Heat, fire, flame and other sources of ignition.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal degradation may produce oxides of carbon, nitrogen, hydrocarbons, and/or derivatives.

---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS:

**SKIN CORROSION/IRRITATION:** Possible skin dryness/irritation if over-exposed.

**SERIOUS EYE DAMAGE/IRRITATION:** None expected



**Product Name: L'Oreal Pro Hair Style Curve Delight**

**RESPIRATORY/SKIN SENSITIZATION:** None expected

**INGESTION:** Harmful if swallowed

**INHALATION:** None expected

**ROUTES OF EXPOSURE:** Inhalation, ingestion, eyes, skin

**SYMPTOMS:** Possible skin dryness/irritation if over-exposed.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None expected

#### **ACUTE TOXICOLOGY DATA FOR COMPONENTS**

Where information is not listed specifically for constituents, published information was not available.

| Material           | Route                   | Species | Test Results                 |
|--------------------|-------------------------|---------|------------------------------|
| Cyclopentasiloxane | Oral LD <sub>50</sub>   | Rat     | > 5,000 mg/kg – OECD 401 eq. |
| Cyclopentasiloxane | Dermal LD <sub>50</sub> | Rabbit  | > 2,000 mg/kg – OECD 402 eq. |
| Cyclopentasiloxane | LC <sub>50</sub> (4 hr) | Rat     | 8.67 mg/L – OECD 403         |
| Ethyl Alcohol      | Oral LD <sub>50</sub>   | Rat     | > 6,200 mg/kg bw             |
| Ethyl Alcohol      | Dermal LD <sub>Lo</sub> | Rabbit  | > 20,000 mg/kg bw            |
| Ethyl Alcohol      | LC <sub>50</sub> (4 hr) | Rat     | > 8,000 mg/L                 |

#### **Skin Corrosion/Irritation:**

*Cyclopentasiloxane:* Not Irritating (Rabbit, OECD 404 eq.)

*Ethyl Alcohol:* Not Irritating (Rabbit, OECD 404)

#### **Serious Eye Damage/Irritation:**

*Cyclopentasiloxane:* Not Irritating (Rabbit, OECD 405 eq.)

*Ethyl Alcohol:* 25% - Not Irritating / 50% - Mildly Irritating / 100% - Irritating (Rabbit, OECD 405)

#### **Respiratory Irritation:**

*Ethyl Alcohol:* 27,314 ppm (Mouse) Highly Irritating

#### **Skin Sensitization:**

*Cyclopentasiloxane:* Not sensitizing (Guinea Pig, Buehler Test)

*Ethyl Alcohol:* Not sensitizing (Guinea Pig)

#### **CHRONIC HEALTH HAZARDS:**

#### **REPEAT DOSE TOXICITY:**

NOAEL (Cyclopentasiloxane, oral): ≥ 1,600 mg/kg bw/d (14 d) (Rat, OECD 407 eq.)

NOAEL (Cyclopentasiloxane, dermal): 1600 mg/kg bw/d (28 d) (Rat, OECD 410 eq.)

NOEC (Cyclopentasiloxane, inhalation): 75 ppm (28 d) – Liver Effect (Rat, OECD 412)

NOAEC (Cyclopentasiloxane, inhalation): 160 ppm (28 d) – Systemic (Rat, OECD 412)

NOAEL (Ethyl Alcohol, oral): >2% (2400 mg/kg); Rat

LOAEL (Ethyl Alcohol, oral): 3% (3600 mg/kg); Rat

#### **CARCINOGENICITY:**

| Component Name (CAS-No.) | OSHA | ACGIH  | NTP | IARC |
|--------------------------|------|--------|-----|------|
| Ethyl Alcohol (64-17-5)  | --   | TLV-A3 | --  | --   |



## Product Name: L'Oreal Pro Hair Style Curve Delight

### Notes:

ACGIH TLV-A3 – Confirmed Animal Carcinogen with Unknown Relevance to Humans

### MUTAGENICITY:

*Cyclopentasiloxane:*

A variety of *in vitro* and *in vivo* tests have produced negative results.

*Ethyl Alcohol:*

Classified as mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May affect genetic material (mutagenic).

### REPRODUCTIVE TOXICITY:

*Cyclopentasiloxane:*

NOAEL:  $\geq 160$  ppm (Vapor) (Rat, EPA OPPTS 870.3800)

*Ethyl Alcohol:*

Effects on the female reproductive system can include menstrual problems, altered sexual behavior, infertility, altered puberty onset, altered length of pregnancy, lactation problems, altered menopause onset and pregnancy outcome. Effects on the male reproductive system can include altered sexual behavior, altered fertility and problems with sperm shape or count.

### DEVELOPMENTAL TOXICITY/TERATOGENICITY:

*Ethyl Alcohol:*

Ethanol has been connected to adverse reproductive effects and birth defects (teratogenic), based on moderate to heavy consumption. Human: passes through the placenta, excreted in maternal milk. Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small size head.

## SECTION 12: ECOLOGICAL INFORMATION

Contact with the environment should be avoided. Spills and leaks should be immediately cleaned up and removed. All precautions should be taken to prevent contact with the environment. Published information regarding ingredients listed on this document area found below; where data is not listed, documentation was unavailable.

### ACUTE AND PROLONGED TOXICITY TO FISH

| INGREDIENT NAME    | TEST             | RESULT         | SPECIES             | EXPOSURE |
|--------------------|------------------|----------------|---------------------|----------|
| Cyclopentasiloxane | LC <sub>50</sub> | $\geq 16$ µg/L | Oncorhynchus mykiss | 96 h     |
| Ethyl Alcohol      | LC <sub>50</sub> | 12.9 - 15.3g/L | Pimephales promelas | 96 h     |

### ACUTE TOXICITY TO AQUATIC INVERTEBRATES

| INGREDIENT NAME    | TEST             | RESULT          | SPECIES            | EXPOSURE |
|--------------------|------------------|-----------------|--------------------|----------|
| Cyclopentasiloxane | EC <sub>50</sub> | $\geq 2.9$ µg/L | Daphnia Magna      | 48 h     |
| Ethyl Alcohol      | EC <sub>50</sub> | 5,012 mg/L      | Ceriodaphnia Dubia | 48 h     |

### TOXICITY TO AQUATIC PLANTS

| INGREDIENT NAME    | TEST             | RESULT         | SPECIES                         | EXPOSURE |
|--------------------|------------------|----------------|---------------------------------|----------|
| Cyclopentasiloxane | EC <sub>50</sub> | $\geq 12$ µg/L | Pseudokirchneriella subcapitata | 96 h     |
| Ethyl Alcohol      | EC <sub>50</sub> | 675 mg/L       | Chlorella Vulgaris              | 4 d      |





Product Name: L'Oreal Pro Hair Style Curve Delight

#### TOXICITY TO MICROORGANISMS

| INGREDIENT NAME    | TEST             | RESULT       | SPECIES                       | EXPOSURE |
|--------------------|------------------|--------------|-------------------------------|----------|
| Cyclopentasiloxane | EC <sub>50</sub> | > 2,000 mg/L | Activated Sludge              | 3 h      |
| Ethyl Alcohol      | EC <sub>50</sub> | 32.1 g/L     | Photobacterium<br>phosphoreum | 15 min   |

#### PERSISTENCY AND DEGRADABILITY:

Cyclopentasiloxane: Not Readily Biodegradable – OECD 310 – 0.14% (28d)

Ethyl Alcohol: Readily Biodegradable – OECD 301 B – 97% (28d)

#### BIOACCUMULATIVE POTENTIAL:

Cyclopentasiloxane: BCF<sub>ss</sub> = 7,060 (OECD 305, Pimephales promelas); log Pow: 8.03 @ 25.3°C (OECD 123)  
Potential to bioaccumulate

Ethyl Alcohol: logBCF<sub>(calculated)</sub> = 0.5 (BCFWIN v2.15) – Not likely to bioaccumulate

### SECTION 13: DISPOSAL CONSIDERATIONS

Those responsible for the performance of disposal, recycling or reclamation activities should refer to section 8 of this document for advice on personal protective equipment and exposure controls.

**WASTE DISPOSAL CONTAINERS:** Appropriate US DOT containers should be utilized which may include cardboard boxes for products, metal or plastic drums for liquids. These containers should meet the packaging specifications required for DOT compliance.

**WASTE DISPOSAL METHOD:** This product is ignitable (D001) RCRA hazardous wastes when intended for disposal. Controlled incineration at a hazardous waste facility is the recommended technology for treatment and disposal. This material must not be disposed through sewage.

#### RCRA HAZARD CLASS: D001

Follow all local governmental requirements intended for disposal.

### SECTION 14: TRANSPORT INFORMATION

#### North American Ground Transportation

- IN CONSUMER PACKAGING:** Limited Quantity/Consumer Commodity (≤ 5 L)  
**UN ID Number:** UN 1266  
**Proper Shipping Name:** Perfumery Products  
**Hazard Class:** 3  
**Packing Group:** III  
**Label Statements:** Exempt – Limited Quantity Marking Only
- OTHER THAN CONSUMER PACKAGING:**  
**UN ID Number:** UN 1266  
**Proper Shipping Name:** Perfumery Products  
**Hazard Class:** 3  
**Packing Group:** III  
**Label Statements:** Flammable Liquid (Class 3)

#### Transport Via Water

- IN CONSUMER PACKAGING:** Limited Quantity (≤ 5 L)





**Product Name: L'Oreal Pro Hair Style Curve Delight**

**UN ID Number:** UN 1266  
**Proper Shipping Name:** Perfumery Products  
**Hazard Class:** 3  
**Packing Group:** III  
**Label Statements:** Exempt – Limited Quantity Marking Only

• **OTHER THAN CONSUMER PACKAGING:**

**UN ID Number:** UN 1266  
**Proper Shipping Name:** Perfumery Products  
**Hazard Class:** 3  
**Packing Group:** III  
**Label Statements:** Flammable Liquid (Class 3)

**Transport Via Air (Domestic/International)**

• **IN CONSUMER PACKAGING:** Limited Quantity – ID 8000, Consumer Commodity (≤ 0.5 L)  
**UN ID Number:** ID 8000  
**Proper Shipping Name:** Consumer Commodity  
**Hazard Class:** 9  
**Packing Group:** N/A  
**Label Statements:** Miscellaneous – Dangerous Goods & Limited Quantity Marking

• **OTHER THAN CONSUMER PACKAGING:**

**UN ID Number:** UN 1266  
**Proper Shipping Name:** Perfumery Products  
**Hazard Class:** 3  
**Packing Group:** III  
**Label Statements:** Flammable Liquid (Class 3)

**Please be aware of carrier transport variations before shipping hazardous materials**

---

**SECTION 15: REGULATORY INFORMATION**

---

**National Fire Protection Association Codes:** Health: 2 Fire: 3 Reactivity: 0 Other: None

**Workplace Hazardous Materials Identification System (as acetone):** Class B Flammable Material; Class D; Division 2, Subdivision B; Eye Irritation

This regulatory information represents the product, in its consumer packaging.

---

**SECTION 16: OTHER INFORMATION**

---

**PREPARATION INFORMATION:** This is the first issuance of this document.

Author: Lalita Vedantam (Corporate Regulatory Services)