

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 (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 Professionnel Blond Studio Freehand Techniques Powder

Recommendations on use: Personal care product to be mixed with companion product(s) in accordance with instructions and applied to hair for lightening effect.

Restrictions on use: For external use only. Use only as directed.

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

| Symbol | Classification | Hazard Statement | Prevention Statements |
|--|--|---|--|
|  | Eye Irritation Category 2A | Causes serious eye irritation | <ul style="list-style-type: none"> Wash hands and all skin surfaces contacted thoroughly after handling. Wear eye protection appropriate for the manufacturing operation being performed (goggles or face shield). |
|  | Sensitization Respiratory Category 1 | May cause allergy or asthma symptoms or breathing difficulties if inhaled | <ul style="list-style-type: none"> Avoid breathing dust. In case of inadequate ventilation wear respiratory protection |
| No symbol Required | Sensitization Skin Category 1 | May cause an allergic skin reaction | <ul style="list-style-type: none"> Contaminated work clothing must not be allowed out of the workplace |

| Symbol | Classification | Hazard Statement | Prevention Statements |
|-----------------------|--|-------------------------------------|--|
| No symbol Required | Skin Irritation Category 2 | Causes skin irritation | <ul style="list-style-type: none"> Wear protective gloves. |
| No symbol Required | Specific Target Organ Toxicity (Single Exposure) Category 3 | May cause respiratory irritation | <ul style="list-style-type: none"> Use only outdoors or in a well-ventilated area |

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/directions before use. Keep from heat and moisture. Do not use metal utensils.

Hazards Not Otherwise Classified: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

| <u>INGREDIENT:</u> | <u>CAS NO.</u> | <u>% WT</u> |
|---------------------------|-----------------------|--------------------|
| Diammonium Phosphate | 7783-28-0 | ≤ 5.0% |
| Trisodium Phosphate | 7601-54-9 | ≤ 10.0% |
| Potassium Persulfate | 7727-21-1 | ≤ 25.0% |

SECTION 4: FIRST AID MEASURES

Response Statements:

IF IN EYES: 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: Wash with plenty of water. **If skin irritation or rash occurs:** Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. **If experiencing respiratory symptoms:** Call a poison control center or get medical advice/attention.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious individual. Call a poison control center or get medical advice/attention if you feel unwell.

SYMPTOMS/EFFECTS: Causes serious eye irritation. May cause asthma symptoms or breathing difficulties. May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation.

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 to extinguish. 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. 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: Follow National Fire Protection Association Guidelines or local guidelines appropriate for emergency response.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Persulfates may yield oxygen and may stimulate combustion of flammable and combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxygen, ammonia, oxides of carbon, sulfur, 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 and where mixture with organic material is possible. 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 associated risks.

If the location is not hazardous and only a small amount of material is released, the material can be swept up or wiped with damp towels/sponges 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 and protective clothing (e.g. apron) may be required for clean-up of large releases. 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 particulate cartridges. See also section 8 of this document.

Notes for those trained to participate in an emergency:

ACCIDENTAL RELEASE MEASURES: Materials in powder form are not expected to migrate greatly during release. Released material should be swept up and accumulated in appropriate UN specification containers while minimizing dust generation. Wash area completely with water. Take care to avoid contact with wet surfaces or walkways that may become slick when residue is present. Rinse response equipment (e.g. towels, sponges, mops) thoroughly prior to disposal or storage. Prohibit discharge to drains, soil, surface and ground waters.

Recommendations for personal protective equipment selection are noted above. 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 chemicals. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. Use only with adequate ventilation and avoid inhalation. Avoid contact with eyes and skin. Do not use with metal utensils. All manufacturing should be performed indoors, in an enclosed environment.

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): Keep in a cool and well-ventilated area. Keep containers closed when not in use. Store away from moisture. Do not store metal utensils with product. This material should be stored locked up in an area where production inventory may be controlled by authorized personnel. Store in a location where spill containment will be easily accessible and releases can be contained.

Storage precautions for packaged product: See consumer packaging.

Keep away from open drains and access to the environment.

Incompatible materials: Organic compounds and reducing agents. Store away from incompatible materials and moisture.

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 ³ | ppm | mg/m ³ |
| Potassium Persulfate (Persulfates) 7727-21-1 | OSHA PEL | -- | -- | -- | -- |
| | ACGIH TLV | -- | 0.1 | -- | -- |
| | 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 oxidizing 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. Contact with eyes should be avoided. For handling of large quantities of material, safety glasses with side shields/goggles are recommended.

Skin Protection (Non-Emergency): Gloves should be worn when mixing kit components and applying mixture. 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 such may be considered. Ensure that the respirator meets current local occupational health and safety standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|---|
| APPEARANCE: | Finely divided, free-flowing blue powder |
| ODOR: | Characteristic |
| ODOR THRESHOLD: | Not Available |
| pH: | 9.9 – 10.5 (1% Aqueous Solution) |
| MELTING/FREEZING POINT: | F: Not Available C: Not Available |
| BOILING POINT: | F: Not Available C: Not Available |
| FLASH POINT: | F: > Not Applicable C: >Not Applicable METHOD USED: Not Applicable |
| EVAPORATION RATE: | Not Applicable |
| FLAMMABILITY: | Not Applicable |
| VAPOR PRESSURE (mmHg): | @ 70F: Not Available @ 21 C: Not Available |
| VAPOR DENSITY (AIR = 1): | @ 70F: Not Available @ 21 C: Not Available |
| RELATIVE DENSITY (H2O = 1): | Not Available |
| SOLUBILITY IN WATER: | Partially soluble |
| PARTITION COEFFICIENT: | Not Available |
| AUTOIGNITION TEMPERATURE: | Not Available |
| DECOMPOSITION TEMPERATURE: | Not Available |
| VISCOSITY: | 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, moisture and contamination with organic materials and metal utensils.

INCOMPATIBILITY (MATERIAL TO AVOID): Organic compounds and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal degradation may produce oxygen, ammonia, oxides of carbon, sulfur, hydrocarbons, and/or derivatives.

SECTION 11: TOXICOLOGICAL INFORMATION

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

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:

SKIN CORROSION/IRRITATION: Causes skin irritation

SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation

RESPIRATORY/SKIN SENSITIZATION: May cause allergic reaction/breathing difficulty; May cause allergic skin reaction

INGESTION: Harmful if swallowed.

INHALATION: May cause respiratory irritation

ROUTES OF EXPOSURE: Eyes, skin, ingestion, inhalation

SYMPTOMS: Causes serious eye irritation. May cause asthma symptoms or breathing difficulties. May cause an allergic skin reaction. Causes skin irritation. May cause respiratory irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be exacerbated.

ACUTE TOXICOLOGY DATA FOR COMPONENTS

| Material | Route | Species | Test Results |
|----------------------|-------------------------|--------------------|------------------|
| Diammonium Phosphate | Oral LD ₅₀ | Rat | 6,500 mg/kg bw |
| Diammonium Phosphate | Dermal LD ₅₀ | Rabbit | >7,950 mg/kg bw |
| Trisodium Phosphate | Oral LD ₅₀ | Rat (OECD 420) | >2,000 mg/kg bw |
| Trisodium Phosphate | Dermal LD ₅₀ | Rabbit (OECD 402) | >2,000 mg/kg bw |
| Trisodium Phosphate | LC ₅₀ (4hr) | Rat (OECD 403) | 0.83 mg/l air |
| Potassium Persulfate | Oral LD ₅₀ | Rat (OECD 401 eq.) | 1,130 mg/kg bw |
| Potassium Persulfate | Dermal LD ₅₀ | Rabbit | >10,000 mg/kg bw |
| Potassium Persulfate | LC ₅₀ (1 hr) | Rat | >42.9 mg/l air |

Skin Corrosion/Irritation:

Diammonium Phosphate: Irritating
Trisodium Phosphate: Irritating (Rabbit)
Potassium Persulfate: Irritating (Rabbit)

Serious Eye Damage/Irritation:

Diammonium Phosphate: Irritating
Trisodium Phosphate: Irritating (Rabbit)
Potassium Persulfate: Irritating (Rabbit)

Respiratory Irritation:

Diammonium Phosphate: Irritating
Trisodium Phosphate: Irritating
Potassium Persulfate: Irritating (Human)

Skin Sensitization:

Trisodium Phosphate: Not Sensitizing (Mouse, OECD 429)
Potassium Persulfate: Sensitizing (Mouse, OECD 429 eq.)

CHRONIC HEALTH HAZARDS:

REPEAT DOSE TOXICITY:

NOAEL (*Diammonium Phosphate*, oral): 250 mg/kg bw/d (Rat, OECD 422, 90d)

NOAEL (*Potassium Persulfate*, oral): 131.5 mg/kg bw/day (Rat, OECD 407 eq., 28d)

CARCINOGENICITY:

| Component Name (CAS-No.) | OSHA | ACGIH | NTP | IARC |
|--------------------------|------|-------|-----|------|
| None established | -- | -- | -- | -- |

MUTAGENICITY:

Diammonium Phosphate: A variety of *in vitro* tests have products negative results.
Trisodium Phosphate: A variety of *in vitro* tests have produced negative results.
Potassium Persulfate: A variety of *in vitro* tests have produced negative results.

REPRODUCTIVE TOXICITY:

Diammonium Phosphate: NOAEL: 1,5000 mg/kg bw/d (OECD 422) – No reproductive effects

DEVELOPMENTAL TOXICITY/TERATOGENICITY:

No Data

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 |
|----------------------|------------------|------------|---------------------|----------|
| Diammonium Phosphate | LC ₅₀ | 155 mg/L | Pimephales promelas | 96 h |
| Trisodium Phosphate | LC ₅₀ | > 100 mg/L | Not specified | 96 h |
| Potassium Persulfate | LC ₅₀ | 76 mg/L | Oncorhynchus mykiss | 96 h |

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

| INGREDIENT NAME | TEST | RESULT | SPECIES | EXPOSURE |
|----------------------|-----------------------------|------------|---------------|----------|
| Diammonium Phosphate | EC ₅₀ | 40-52 mg/L | Daphnia Magna | 96 h |
| Trisodium Phosphate | EC ₅₀ (OECD 202) | > 100 mg/L | Daphnia magna | 48 h |
| Potassium Persulfate | EC ₅₀ | 120 mg/L | Daphnia Magna | 48 h |

TOXICITY TO AQUATIC PLANTS

| INGREDIENT NAME | TEST | RESULT | SPECIES | EXPOSURE |
|----------------------|-----------------------------|------------|---------------------------|----------|
| Diammonium Phosphate | NOEC | 3.57 mg/L | Scenedesmus capricornutum | 72 h |
| Trisodium Phosphate | EC ₅₀ (OECD 201) | > 100 mg/L | Desmodesmus subspicatus | 72 h |

TOXICITY TO MICROORGANISMS

No Data

PERSISTENCY AND DEGRADABILITY:

No Data

BIOACCUMULATIVE POTENTIAL:

Potassium Persulfate: Not expected 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 containers should be utilized which may include cardboard boxes for products, plastic/lined drums for solids. Packaging containers must not include incompatible materials.

WASTE DISPOSAL METHOD: This product is not considered a federal RCRA hazardous waste when intended for disposal. Controlled incineration at a licensed waste facility is the recommended technology for treatment and disposal. This material must not be disposed through sewage.

RCRA HAZARD CLASS: Not Regulated

Follow all local governmental requirements intended for disposal.

SECTION 14: TRANSPORT INFORMATION

North American Ground Transportation

- **IN CONSUMER PACKAGING:** Not Regulated
- **OTHER THAN CONSUMER PACKAGING:** Not Regulated

Transport Via Water

- **IN CONSUMER PACKAGING:** Not Regulated
- **OTHER THAN CONSUMER PACKAGING:** Not Regulated

Transport Via Air (Domestic/International)

- **IN CONSUMER PACKAGING:** Not Regulated
- **OTHER THAN CONSUMER PACKAGING:** Not Regulated

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

SECTION 15: REGULATORY INFORMATION

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

Workplace Hazardous Materials Identification System: Class D; Division 2, Subdivision B; Irritation/Sensitization

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: Ronald Weslosky (Corporate Regulatory Services)