<table>
<thead>
<tr>
<th>Product Category</th>
<th>Product</th>
<th>MSDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessories</td>
<td>Corrector Pen</td>
<td>11-073</td>
</tr>
<tr>
<td></td>
<td>Cuticle Pen</td>
<td>NON-HAZ</td>
</tr>
<tr>
<td></td>
<td>White Bright Nail Pen</td>
<td>99-020</td>
</tr>
<tr>
<td>Nail</td>
<td>All In One Three Way Glaze</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Apricot Cuticle Oil</td>
<td>NON-HAZ</td>
</tr>
<tr>
<td></td>
<td>Essie Gel</td>
<td>ESSIE GEL</td>
</tr>
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<td></td>
<td>Essie Nail Color</td>
<td>99-022</td>
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<tr>
<td></td>
<td>Fill The Gap</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>First Base Base Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Gel Base Coat</td>
<td>EP Base-Top</td>
</tr>
<tr>
<td></td>
<td>Gel Cleanser</td>
<td>EP Cleanser</td>
</tr>
<tr>
<td></td>
<td>Gel Remover Liquid</td>
<td>11-073</td>
</tr>
<tr>
<td></td>
<td>Gel Top Coat</td>
<td>EP Base-Top</td>
</tr>
<tr>
<td></td>
<td>Good To Go</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Grow Faster Base Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Grow Stronger Base Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Instant Dry Oil</td>
<td>NON-HAZ</td>
</tr>
<tr>
<td></td>
<td>Luxeffects Top Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Man E Cure</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Matte About You</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Millionails Treatment</td>
<td>99-022</td>
</tr>
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<td></td>
<td>Naturally Clean Purifying Nail Polish Remover</td>
<td>11-073</td>
</tr>
<tr>
<td></td>
<td>No Chips Ahead Top Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Protein Base Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Quick E</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Ridge Filler</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Ridge Filling Base Coat</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Sensitivity</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Shine E</td>
<td>99-022</td>
</tr>
<tr>
<td></td>
<td>Sleek Sticks Nail Stickers</td>
<td>NON-HAZ</td>
</tr>
<tr>
<td></td>
<td>Super Duper Top Coat</td>
<td>99-022</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet
May be used to comply with
OSHA’s Hazard Communication Standard
29 CFR 1910.1200. Standard must be consulted for specific requirements

IDENTITY
Alcohol-Based Fragrance & Skin Treatment Products

Section I
Manufacturer’s Name
L’Oreal USA Products, Inc.

Address (Number, Street, City, State, and ZIP Code)
111 Terminal Avenue

Clark, NJ 07066

Emergency Telephone Number
(800) 535-5053 (Int’l 352-323-3500)

Telephone Number For Information
(732) 499-2745

Date Prepared
June 20, 2005

Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity;Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>1000 ppm</td>
<td></td>
<td></td>
<td>25–92%</td>
</tr>
</tbody>
</table>

Section III - Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>~170°F</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td>~0.9</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(~Butyl Acetate = 1)</td>
</tr>
<tr>
<td>(~3)</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Colored, perfumed, water-thin liquid. (non-aerosol)</td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>Ethyl Alcohol</td>
</tr>
<tr>
<td>60–90°F (closed cup)</td>
<td>3.3%</td>
</tr>
<tr>
<td>UEL</td>
<td>19%</td>
</tr>
</tbody>
</table>

Extinguishing Media
Carbon dioxide, dry chemical, foam and/or water spray.

Special Fire Fighting Procedures
For small fires, use carbon dioxide, dry chemical, or foam.
For larger fires, use ample quantities of water.

Unusual Fire and Explosion Hazards
None; however, observe usual precautions for handling of flammable liquids.
For manufacturing, minimize airborne vapor levels through engineering controls.
### Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>Avoid fire, flame, heat, and other sources of ignition.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Incompatibility (Materials to Avoid)**

Oxidizing agents and nitric acid.

**Hazardous Decomposition or Byproducts**

None known.

<table>
<thead>
<tr>
<th>Polymerization</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Occur</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section VI - Health Hazard Data

**Route(s) of Entry:**

<table>
<thead>
<tr>
<th>Route(s) of Entry</th>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Not likely</td>
</tr>
</tbody>
</table>

**Health Hazards (Acute and Chronic)**

Causes eye irritation. May cause skin irritation or sensitization in sensitive individuals. May be harmful if swallowed.

**Carcinogenicity:**

<table>
<thead>
<tr>
<th>NTP?</th>
<th>IARC Monographs?</th>
<th>OSHA Regulated?</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>NO</td>
<td>No</td>
</tr>
</tbody>
</table>

**Signs and Symptoms of Exposure**

Overexposure and/or ingestion may produce signs and symptoms of alcohol intoxication.

**Medical Conditions Generally Aggravated by Exposure**

None known.

**Emergency and First Aid Procedure**

**INGESTION:** Give one or two glasses of water or milk and consult physician.

**EYE CONTACT:** Flush thoroughly with water for at least 15 minutes and get medical attention.

**SKIN CONTACT:** Flush with water, then wash with soap and plenty of water.

### Section VII - Precautions for Safe Handling and Use

**Steps to be Taken in Case Material is Released or Spilled**

Eliminate all sources of ignition. Dike and contain the free liquid and absorb with vermiculite or spill pillows. Containerize absorbed material in UN specification drums for disposal. Wash spill area with water.

**Waste Disposal Method**

Alcohol-based products are ignitable (D001) RCRA hazardous wastes when intended for disposal. Incineration is the required method of treatment and disposal.

**Precautions to be Taken in Handling and Storage**

Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

**Other Precautions**

Avoid contact with eyes. For external use only. Use only as directed.
Section VIII - Control Measures

Respiratory Protection (Specify Type)

For manufacturing/filling, wear a NIOSH approved organic vapor respirator if alcohol TLV is exceeded. For spills, wear an approved self-contained operating apparatus.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Explosion-Proof</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical (General)</td>
<td>Explosion-Proof</td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

Protective Gloves

Plastic or rubber for bulk quantities.

Other Protective Clothing or Equipment

Safety glasses for bulk quantities. Protective clothing for manufacturing operations.

Work/Hygienic Practices

OSHA hazard classification: Flammable, eye irritant

DOT classification: Bulk - Perfumery products, with flammable solvents, 3 UN 1266 PGII

Finished product - Consumer Commodity, ORM-D.
**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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

**Emergency Telephone Number:**  
800-535-5053 (International: 352-323-3500)

**For further information:**  
732-499-2741

---

**Product Name: Nail Enamels**

**Recommendations on use:** Liquid lacquer painted on the nails to create temporary coloring effect.

**Restrictions on use:** Please read the labeling on the consumer package for proper use of this material. For external use only. Use only as directed.

---

**SECTION 2: HAZARDS IDENTIFICATION**

**Signal word:** DANGER

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Classification</th>
<th>Hazard Statement</th>
<th>Prevention Statements</th>
</tr>
</thead>
</table>
| ![Flammable Liquids – Category 2](fire_triangle.png) | Flammable Liquids – Category 2 | Highly flammable liquid and vapor |  - Keep away from heat, sparks, open flames and hot surfaces. Do not use while smoking.  
- Keep container tightly closed.  
- Ground/bond container and receiving equipment.  
- Use explosion-proof electrical, ventilating, lighting, manufacturing and packaging equipment.  
- Use only non-sparking tools.  
- Take precautionary measures against static discharge.  
- Wear plastic or rubber gloves. Eye protection appropriate for the manufacturing operation being performed should be used (goggles or face shield). |

| ![Eye Irritation – Category 2A](eye_icon.png) | Eye Irritation – Category 2A | Causes serious eye irritation |  - Wash hands and face thoroughly after handling.  
- Wear eye protection/face protection; eye protection appropriate for the manufacturing operation being performed should be used (goggles or face shield). |
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 before use.

Hazards Not Otherwise Classified: Over-exposure may cause skin dryness or slight irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT:</th>
<th>CAS NO.</th>
<th>% WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>&lt;60 %</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>123-86-4</td>
<td>&lt;30 %</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>109-60-4</td>
<td>&lt;30 %</td>
</tr>
<tr>
<td>Tosylamide/formaldehyde resin (not present in all formulations)</td>
<td>25035-71-6</td>
<td>&lt;15 %</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>9004-70-0</td>
<td>&lt;12 %</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>&lt;10 %</td>
</tr>
</tbody>
</table>

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 for at least 20 minutes or until material is sufficiently removed from the eye. **If eye irritation persists:** Get medical advice/attention if irritation or other symptoms occur.

IF ON SKIN OR HAIR: Remove immediately all contaminated clothing. Rinse skin with water in an appropriate emergency shower. **If irritation symptoms appear and persist,** get medical attention.

IF SWALLOWED: Do not induce vomiting. Consult a physician immediately. Call a Poison Control Center if you feel unwell.

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

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

SYMPTOMS/EFFECTS: Eye irritation upon contact, possible skin dryness/irritation if over-exposed, drowsiness or dizziness if over-exposed by inhalation.
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: Carbon monoxide/carbon dioxide, nitrogen oxides.

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. It is vital that sections 2, 5, 7 and 8 of this document be consulted before an accident occurs, to control any risks in handling flammable liquids.

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

PERSONAL PROTECTIVE EQUIPMENT: Plastic or rubber gloves, apron may be required for clean-up of large spills. Respiratory protection may need to be utilized, depending upon the size of the spill. Respiratory protection may include the use of organic vapor cartridges. Protective goggles or face shield is recommended for the control of liquid. See also Section 8 of this document.

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. 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

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place. Keep cool. Minimize inventory. Keep container tightly closed. It is suggested that this material be “locked up” or stored in an area where production inventory may be controlled by authorized personnel. 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.

Keep away from open drains and access to the environment.

General notes on storage:

Incompatible materials: Oxidizers, acids, bases. Store away from incompatible materials.

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

General notes on handling:

Employees should not eat, drink or smoke while working with flammable materials. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. 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.

Please refer to section 8 of this document for recommended equipment to be used in a manufacturing environment.

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 (where available from the listed agencies):

<table>
<thead>
<tr>
<th>Component Name (CAS-No.)</th>
<th>Reference</th>
<th>TWA (ppm)</th>
<th>TWA (mg/m³)</th>
<th>STEL/CEILING (ppm)</th>
<th>STEL/CEILING (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate (141-78-6)</td>
<td>OSHA PEL</td>
<td>400</td>
<td>1400</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV</td>
<td>400</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL</td>
<td>400</td>
<td>1400</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>n-Butyl Acetate (123-86-4)</td>
<td>OSHA PEL</td>
<td>150</td>
<td>710</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV</td>
<td>150</td>
<td>710</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL</td>
<td>150</td>
<td>710</td>
<td>200</td>
<td>950</td>
</tr>
</tbody>
</table>
**Component Name (CAS-No.)** | **Reference** | **TWA** ppm | **STEL/CEILING** ppm | **mg/m^3** | **mg/m^3**
---|---|---|---|---|---
Propyl Acetate (109-60-4) | OSHA PEL | 200 | -- | 840 | --
| ACGIH TLV | 200 | -- | 840 | --
| NIOSH REL | 200 | -- | 840 | 250 | 1050
Isopropyl Alcohol (67-63-0) | OSHA PEL | 400 | -- | 980 | --
| ACGIH TLV | 400 | -- | 980 | --
| NIOSH REL | 400 | -- | 980 | 500 | 1225

**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

**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.

**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, plastic or rubber gloves should be considered for use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Colored or clear, shiny liquid material. Dries after contact with air.

**ODOR:** The product has a solvent odor associated with it (butyl acetate or ethyl acetate odor).

**ODOR THRESHOLD:** The fragrance of the material will be noticeable when very little product has been dispensed.

**pH:** Not available (non-aqueous)

**MELTING POINT:** F: N/A C: N/A

**FREEZING POINT:** F: N/A C: N/A

**BOILING POINT:** F: 125-175 C: 51.7 – 79.4

**FLASH POINT:** F: 14-45; C: -10 – 7.3

**METHOD USED:** Closed Cup
EVAPORATION RATE:  >1 for product  (Butyl acetate = 1)

FLAMMABILITY: flammable liquid

FLAMMABLE LIMITS IN AIR (% BY VOLUME):

- ETHYL ACETATE: 11.5% UEL; 2.0% LEL
- n-BUTYL ACETATE: 7.6% UEL; 1.7% LEL
- PROPYL ACETATE: 8% UEL; (100°F) 1.7% LEL
- ISOPROPYL ALCOHOL: (@200°F) 12.7% UEL; 2.0% LEL
- NO OTHERS LISTED

VAPOR PRESSURE (mm Hg): @ 70°F ; 21°C: 44 – 73

VAPOR DENSITY (AIR = 1): @ 70°F; 21°C: >1

RELATIVE DENSITY/SPECIFIC GRAVITY (H2O = 1): >1

SOLUBILITY IN WATER: Insoluble

PARTITION COEFFICIENT: not available

AUTOIGNITION TEMPERATURE: F: 797 C: 425 (ethyl acetate)

DECOMPOSITION TEMPERATURE: Not available

VISCOSITY: 100-1000 cps

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: This material is not considered reactive under typical handling and storage conditions.

STABILITY: Product is stable under standard pressure and temperature.

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 and acids/bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide/carbon dioxide, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:
- SKIN CORROSION/IRRITATION: Overexposure may cause skin irritation or dryness
- SERIOUS EYE DAMAGE OR IRRITATION: Serious eye irritation upon contact
- RESPIRATORY OR SKIN SENSITIZATION: None expected
- INGESTION: Harmful if swallowed
- INHALATION: May cause drowsiness/dizziness
CARCINOGENICITY:

OSHA: Not recognized as carcinogenic
NTP: Not recognized as carcinogenic
ACGIH: Not recognized as carcinogenic
IARC: Not recognized as carcinogenic

ROUTES OF EXPOSURE: Inhalation, eyes, skin

SYMPTOMS: Symptoms may include unsteady gait, nausea, and dizziness. Skin redness, dryness or itchiness may occur with over-exposure to the product. Watering, stinging or itching eyes may occur with direct contact.

CHRONIC HEALTH EFFECTS: None anticipated

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>LC 50 (RAT)</th>
<th>LD 50 Oral (RAT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>200 g/m³</td>
<td>5620 mg/kg</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>390 ppm</td>
<td>10768 mg/kg</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>Unavailable</td>
<td>9370 mg/kg</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>Unavailable</td>
<td>5000 mg/kg</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>16000 ppm</td>
<td>5045 mg/kg</td>
</tr>
<tr>
<td>T/F Resin</td>
<td>Unavailable</td>
<td>Unavailable</td>
</tr>
</tbody>
</table>

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.

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.

ACUTE AND PROLONGED TOXICITY TO FISH

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>LC₅₀ = 270-333 mg/l</td>
<td>Golden Orfe</td>
<td>48 h</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>LC₅₀ = 18 mg/l</td>
<td>Pimephas promelas</td>
<td>96 h</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>LC₅₀ = 56-64 ppm</td>
<td>Pimephas promelas</td>
<td>96 h</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>LC₃₀ = 11,130 mg/l</td>
<td>Pimephas promelas</td>
<td>96 h</td>
</tr>
</tbody>
</table>
**ACUTE TOXICITY TO AQUATIC INVERTEBRATES**

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>EC$_{50}$ = 3090 mg/l</td>
<td>Daphnia Magna</td>
<td>24 h</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>EC$_{50}$ = 205 mg/l</td>
<td>Daphnia Magna</td>
<td>24 h</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>EC$_{50}$ = 318-511 ppm</td>
<td>Daphnia Magna</td>
<td>24 h</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>LC$_{50}$ = 903 mg/l</td>
<td>Daphnia Magna</td>
<td>96 h</td>
</tr>
</tbody>
</table>

**TOXICITY TO AQUATIC PLANTS**

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>EC$_{50}$ = 3300 mg/l</td>
<td>Scenedesmus subspicatus (algae)</td>
<td>48h</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>EC$_{50}$ = 675 mg/l</td>
<td>Scenedesmus subspicatus (algae)</td>
<td>72h</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>EC$_{50}$ = &gt;1000 mg/l</td>
<td>Planktonalgen</td>
<td>24 h</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>EC$_{50}$ = &gt;1000 mg/l</td>
<td>Scenedesmus subspicatus (algae)</td>
<td>96 h</td>
</tr>
</tbody>
</table>

**TOXICITY TO MICROORGANISMS**

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Acetate</td>
<td>EC$_{50}$ = 1500 mg/l</td>
<td>Bacteria (Pseudomonas fluorescens)</td>
<td>15 min</td>
</tr>
<tr>
<td>n-Butyl Acetate</td>
<td>EC$_{50}$ = 959 mg/l</td>
<td>Pseudomonas putida</td>
<td>18 h</td>
</tr>
<tr>
<td>Propyl Acetate</td>
<td>TGK = 97-1123 mg/l</td>
<td>Protozoa</td>
<td>48-72 h</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>EC$_{50}$ = 41,676 mg/l</td>
<td>Bacteria (activated sludge)</td>
<td>30 days</td>
</tr>
</tbody>
</table>

This product is readily biodegradable and shows a low bioaccumulation potential.

**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:** Nail enamel remover products are 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

The classification represented below is based upon 49 CFR 171.150 SP 198 in affiliation with Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55% nitrocellulose UN 2059 PGII:

- **In Consumer Packaging**: Limited Quantity/Consumer Commodity

- **PACKAGED IN OTHER THAN CONSUMER PACKAGING**:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid

Transport Via Water

The classification represented below is based upon IMDG code SP 198 in affiliation with Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55% nitrocellulose UN 2059 PGII:

- **In Consumer Packaging**: Limited Quantity
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: None

- **PACKAGED IN OTHER THAN CONSUMER PACKAGING**:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid
Transport Via Air Domestic/International

The classification represented below is based upon 49 CFR 171.150 SP 198 and IATA DGR SP A91 in affiliation with Nitrocellulose, solution, flammable with not more than 12.6 percent nitrogen, by mass, and not more than 55% nitrocellulose UN 2059 PGII:

- **In Consumer Packaging**: Limited Quantity/Consumer Commodity ID 8000

- **PACKAGED IN OTHER THAN CONSUMER PACKAGING**:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid

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; D2B Poisonous and infectious material - Toxic

US DOT/IATA/IMDG: See section 14 above

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

**SECTION 16: OTHER INFORMATION**

**PREPARATION INFORMATION**: Formatting change to accommodate changes to OSHA 29CFR1910.1200 Hazard Communication regulations.

Author: Chandra L. Jennings
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

Emergency Telephone Number:  
800-535-5053 (International: 352-323-3500)  

For further information:  
732-499-2741

Product Name: Acetone Nail Enamel Removers (Bottles and Pen Dispensers)

Recommendations on use: Applied on the nails to remove temporary coloring effects produced by nail lacquer.

Restrictions on use: Please read the labeling on the consumer package for proper use of this material. For external use only. Use only as directed.

SECTION 2: HAZARDS IDENTIFICATION

Signal word: DANGER

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Classification</th>
<th>Hazard Statement</th>
<th>Prevention Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flammable Liquids –</td>
<td>Highly flammable liquid and vapor</td>
<td>• Keep away from heat, sparks, open flames and hot surfaces. Do not use while smoking.</td>
</tr>
<tr>
<td></td>
<td>Category 2</td>
<td></td>
<td>• Keep container tightly closed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Ground/bond container and receiving equipment.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Use explosion-proof electrical, ventilating, lighting, manufacturing and packaging</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>equipment.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Use only non-sparking tools.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Take precautionary measures against static discharge.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Wear plastic or rubber gloves. Eye protection appropriate for the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>manufacturing operation being performed should be used (goggles or face shield).</td>
</tr>
<tr>
<td></td>
<td>Eye Irritation –</td>
<td>Causes serious eye irritation</td>
<td>• Wash hands and face thoroughly after handling.</td>
</tr>
<tr>
<td></td>
<td>Category 2A</td>
<td></td>
<td>• Wear eye protection/face protection; eye protection appropriate for the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>manufacturing operation being performed should be used (goggles or face shield).</td>
</tr>
</tbody>
</table>
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 before use.

**Hazards Not Otherwise Classified:** Over-exposure may cause skin dryness or slight irritation.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Only hazardous constituents associated with the product are listed below

<table>
<thead>
<tr>
<th>INGREDIENT:</th>
<th>CAS NO.</th>
<th>% WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>64-67-1</td>
<td>&lt;99 %</td>
</tr>
</tbody>
</table>

### 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 for at least 20 minutes or until material is sufficiently removed from the eye. **If eye irritation persists:** Get medical advice/attention if irritation or other symptoms occur.

**IF ON SKIN OR HAIR:** Remove immediately all contaminated clothing. Rinse skin with water in an appropriate emergency shower. **If irritation symptoms appear and persist,** get medical attention.

**IF SWALLOWED:** Do not induce vomiting. Consult a physician immediately. Call a Poison Control Center if you feel unwell.

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

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

**SYMPTOMS/EFFECTS:** Eye irritation upon contact, possible skin dryness/irritation if over-exposed, drowsiness or dizziness if over-exposed by inhalation.
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: Carbon monoxide/carbon dioxide, nitrogen oxides.

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 can not be controlled. It is vital that sections 2, 5, 7 and 8 of this document be consulted before an accident occurs, to control any risks in handling flammable liquids.

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

PERSONAL PROTECTIVE EQUIPMENT: Plastic or rubber gloves, apron may be required for clean-up of large spills. Respiratory protection may need to be utilized, depending upon the size of the spill. Respiratory protection may include the use of organic vapor cartridges. Protective goggles or face shield is recommended for the control of liquid. See also Section 8 of this document.

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. 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

Storage precautions for unpackaged product (manufacturing environment): Store in a well-ventilated place. Keep cool. Minimize inventory. Keep container tightly closed. It is suggested that this material be “locked up” or stored in an area where production inventory may be controlled by authorized personnel. 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.

Keep away from open drains and access to the environment.

General notes on storage:

Incompatible materials: Oxidizers, acids, bases. Store away from incompatible materials.

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

General notes on handling:

Employees should not eat, drink or smoke while working with flammable materials. Employees should be advised to wear appropriate protective equipment in the manufacturing environment. See section 8 of this document for protective equipment selection. 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.

Please refer to section 8 of this document for recommended equipment to be used in a manufacturing environment.

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:

OSHA PEL-TWA: Acetone – 1000 ppm
OSHA PEL-STEL/CEILING: None established
ACGIH TLV-TWA: Acetone: 500 ppm
ACGIH STEL/CEILING: Acetone: 750ppm

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.

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.

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, plastic or rubber gloves should be considered for use. Tyvek clothing may also be suitable for handling large quantities of material in the manufacturing environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colored or clear, free-flowing liquid dispensed from bottle or pen.

ODOR: The product has a solvent odor associated with it (acetone odor).

ODOR THRESHOLD: The fragrance of the material will be noticeable when very little product has been dispensed.

pH: Not available (non-aqueous)

MELTING POINT: F: N/A C: N/A

FREEZING POINT: F: ~ -140 C: ~ -95.6

BOILING POINT: F: ~133 C: ~ 56.1

FLASH POINT: F: -4 C: -20 METHOD USED: Closed Cup

EVAPORATION RATE: >6 for product (Butyl acetate = 1)

FLAMMABILITY: flammable liquid

FLAMMABLE LIMITS IN AIR (% BY VOLUME): ACETONE: 12.8% UEL; 2.5% LEL;

VAPOR PRESSURE (mmHg): @ 70°F; 21°C: 180

VAPOR DENSITY (AIR = 1): @ 70°F; 21°C: approximately 2

RELATIVE DENSITY/SPECIFIC GRAVITY (H2O = 1): approximately 0.79

SOLUBILITY IN WATER: Soluble in cold water

PARTITION COEFFICIENT: Octanol/Water: 0.58 (calculated); Water/Air: 334 (Measured)

AUTOIGNITION TEMPERATURE: F: 869 C: 465 (as acetone)

DECOMPOSITION TEMPERATURE: Not available

VISCOITY: < 1cps; free-flowing like water
SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: This material is not considered reactive under typical handling and storage conditions.

STABILITY: Product is stable under standard pressure and temperature.

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 and acids/bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide/carbon dioxide, nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS:
SKIN CORROSION/IRRITATION: Overexposure may cause skin irritation or dryness
SERIOUS EYE DAMAGE OR IRRITATION: Serious eye irritation upon contact
RESPIRATORY OR SKIN SENSITIZATION: None expected
INGESTION: Harmful if swallowed
INHALATION: May cause drowsiness/dizziness

CARCINOGENICITY:

OSHA: Not recognized as carcinogenic
NTP: Not recognized as carcinogenic
ACGIH: Acetone has been denoted to have a carcinogenicity category of TLV-A4. This reference indicates that the material is a “Probably Not Carcinogenic to Humans. This category is used for agents or mixtures for which there is very little evidence suggesting lack of carcinogenicity in humans and in experimental animals. In some instances, agents or mixtures for which there is inadequate evidence of carcinogenicity in humans but evidence suggesting lack of carcinogenicity in experimental animals, consistently and strongly supported by a broad range of other relevant data, may be classified in this group”.
IARC: Not recognized as carcinogenic

ROUTES OF EXPOSURE: Inhalation, eyes, skin

SYMPTOMS: Symptoms may include unsteady gait, nausea, and dizziness. Skin redness, dryness or itchiness may occur with over-exposure to the product. Watering, stinging or itching eyes may occur with direct contact.

CHRONIC HEALTH EFFECTS: None anticipated

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

Acute Oral Toxicity (LD₅₀) acetone: 8400 mg/kg (Rat)
Acute Toxicity of the vapor (LC₅₀) acetone: 50,000 mg/m³; 8 hr (Rat)
Skin Irritation acetone: Non-Irritating (Rabbit)
Eye Irritation acetone: Highly Irritating (Draize test; Rabbit)
Respiratory Irritation acetone (RD₅₀): Weakly Irritating (Mouse)
Sensitization acetone: Not sensitizing
Repeated Dose Toxicity (OECD 408) acetone: NOEL: 1% (900 mg/kg/day) Rat: male
Developmental Toxicity/Teratogenicity (OECD 414) acetone: NOEL: teratogenicity: >26, 1110 mg/m³ (Rat)
NOEL: developmental 5330 mg/m³ (rat)
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 AQUATIC ORGANISMS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>LC₅₀ 7400 mg/l</td>
<td>Rainbow Trout</td>
<td>96 h</td>
</tr>
<tr>
<td>Acetone</td>
<td>LC₅₀ 15,800 mg/L</td>
<td>Daphnia magna</td>
<td>8 h</td>
</tr>
</tbody>
</table>

Acetone is noted to volatilize, leach and biodegrades fairly rapidly in soil and water by both aerobic and anaerobic means. Significant accumulation in sediment is not expected after release. Acetone is miscible is water and does not hydrolyze.

Bioconcentration acetone: Atlantic Cod BCF 0.65
Oxygen demand acetone: Theoretical (ThOD): 2.20 g O₂/g Chemical (COD): 2.00 g O₂/g

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: Nail enamel remover products are 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
- PACKAGED IN OTHER THAN CONSUMER PACKAGING:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid
Transport Via Water

- **In Consumer Packaging**: Limited Quantity
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS:

- **PACKAGED IN OTHER THAN CONSUMER PACKAGING**:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid

Transport Via Air Domestic/International

- **In Consumer Packaging**: Limited Quantity/Consumer Commodity ID 8000

- **PACKAGED IN OTHER THAN CONSUMER PACKAGING**:
  - ID NUMBER: UN 1266
  - PROPER SHIPPING NAME: Perfumery Products
  - HAZARD CLASS: 3
  - PACKING GROUP: II
  - LABEL STATEMENTS: Flammable Liquid

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; D2B Poisonous and infectious material - Toxic

US DOT/IATA/IMDG: See section 14 above

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: Chandra L. Jennings
Material Safety Data Sheet

IDENTITY
L’Oreal Non-Hazardous hair styling, cosmetic and/or skin care products

Section I
Manufacturer’s Name
L'Oreal USA Products, Inc.
Address (Number, Street, City, State, and ZIP Code)
111 Terminal Avenue
Clark, NJ 07066

Emergency Telephone Number
(800) 535-5053 (Int’l 352-323-3500)

Telephone Number For Information
(732) 499-2745

Date Prepared
May 10, 2005

Signature of Preparer (optional)
CLJ/GCD

Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity; Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section III - Physical/Chemical Characteristics

Boiling Point (Liquids)
| varies |

Specific Gravity (H2O = 1)
>1

Vapor Pressure (mm Hg)
N/A

Melting Point (Solids)
varies

Vapor Density (AIR = 1)
>1

Evaporation Rate (Butyl Acetate = 1)
<1

Solubility in Water
Generally soluble or miscible

Appearance and Odor
May have a mild to moderate fragrance

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)
>200°F

Flammable Limits
Not applicable

LEL
N/A

UEL
N/A

Extinguishing Media
Carbon dioxide, dry chemical, foam, and/or water spray.

Special Fire Fighting Procedures
Fires involving bulk product may be extinguished with carbon dioxide, dry chemical, and/or foam. Water spray may be used to soak corrugated shipping containers of finished product if involved in a fire.

Unusual Fire and Explosion Hazards
None; however, observe usual precautions for handling of combustible materials. For manufacturing, minimize airborne vapor levels through engineering controls.
Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>Stable</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Avoid heat, fire, and other sources of ignition.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)
Oxidizing agents and nitric acid.

Hazardous Decomposition or Byproducts
Silicon dioxide, carbon monoxide, carbon dioxide.

<table>
<thead>
<tr>
<th>Hazardous</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>Polymerization</th>
<th>Will Not Occur</th>
<th>None known.</th>
</tr>
</thead>
</table>

Section VI - Health Hazard Data

<table>
<thead>
<tr>
<th>Route(s) of Entry:</th>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Health Hazards (Acute and Chronic)
No health hazards anticipated.

Carcinogenicity:
NTP?
No
IARC Monographs?
No
OSHA Regulated?
No

Signs and Symptoms of Exposure
No health hazards anticipated.

Medical Conditions Generally Aggravated by Exposure
None known.

Emergency and First Aid Procedure
If in eyes, flush with plenty of water for at least 15 minutes. Get medical attention if irritation occurs. If swallowed, drink one or two glasses of water or milk and consult a physician. If on skin, wash with soap and water.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Eliminate all sources of ignition. Dike and contain the free liquid, if any, and absorb on vermiculite, spill pillows, or other absorbants. Containerize spent absorbants in suitable containers for disposal. Wash spill area with detergent solution as necessary.

Waste Disposal Method
Non-hazardous products are not regulated as hazardous wastes when intended for disposal. However, incineration is the recommended method of treatment and disposal for such products.

Precautions to be Taken in Handling and Storage
Store bulk quantities in a cool, well-ventilated room. Limit quantities on hand to the extent possible. Store away from possible sources of ignition. Observe usual precautions relative to static electricity. Avoid oxidizing agents and nitric acid.

Other Precautions
For external use only. Use only as directed.

Section VIII - Control Measures

For routine manufacturing/filling operations, none generally required. For spills, wear an approved self-contained breathing apparatus.

<table>
<thead>
<tr>
<th>Ventilation</th>
<th>Local Exhaust</th>
<th>Explosion-Proof</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical(General)</td>
<td>Explosion-Proof</td>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>
Protective Gloves
Rubber or plastic gloves for bulk quantities.

Other Protective Clothing or Equipment
Safety glasses and protective clothing for bulk quantities.

Work/Hygienic Practices
OSHA hazard classification: Non-Hazardous
DOT classification: Bulk - Not regulated
                  Finished Product - Not regulated.
**Material Safety Data Sheet**

**B-1 Wiping Solution**

**Section 1 – Identification**

**Product Name:** B-1 Wiping Solution

**Chemical Name:** N/A

**Manufacturer:** KEYSTONE INDUSTRIES
616 Hollywood Ave. Cherry Hill, NJ 08002

**Information Contacts:** (856)-663-4700

**Emergency Phone Numbers:** US & Canada (800) 535-5053

**Family:** Cleansing Agent

**Product Use:** Wiping Solution

**Product #:** 1001763-64-65

**EU Address:** KEYSTONE EUROPE BV
Batavenweg 7
5349BC OSS, Netherlands

**Section 2 – Hazards Identification**

**EMERGENCY OVERVIEW**

This information is based on findings from related or similar materials.

- Flammable liquid and vapor!
- May cause eye irritation.
- May cause skin irritation.
- Avoid prolonged or repeated breathing of gases, vapors or mists.
- Please read entire MSDS for additional information.

**Potential Health Effects, Signs and Symptoms of Exposure:**

**Primary Route of Entry** Inhalation, skin and ingestion.

**Eye**

Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness, and pain with possible corneal damage.

**Skin**

Repeated/prolonged contact may cause drying of skin. Symptoms include redness, burning, drying, cracking and skin burns.

**Ingestion**

Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

**Inhalation**

Vapors are irritating to nasal passages and throat and may cause stupa or headache. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

**Sub-Chronic Effects**

Significant exposure to this chemical may adversely affect people with chronic disease or may cause damage to the respiratory system, skin and eyes.

**NOTE:** Refer to Section 11, Toxicological Information for Details

**Section 3 – Composition/Information on Ingredients**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Numbers</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure OSHA TW/STEL</th>
<th>Limits ACGIH TW/STEL</th>
<th>Carcinogen</th>
<th>IARC/NTP/OSHA</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>Isopropyl Alcohol</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td>Not Listed</td>
<td>75-80</td>
<td></td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>141 - 78 - 6</td>
<td>205-500-4</td>
<td>Ethyl Acetate</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td>Not Listed</td>
<td>20-25</td>
<td></td>
</tr>
</tbody>
</table>

**See Section 16 for Risk and Safety Phase Key**

**Section 4 – First Aid Measures**

**First Aid for Eye**

Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

**First Aid for Skin**

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists.

**Date of Issue:** 02/03/2010
Material Safety Data Sheet  B-1 WIPING SOLUTION

First Aid for Ingestion
If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Seek medical attention for advice about whether to induce vomiting. If possible, do not leave individual unattended.

First Aid for Inhalation
Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Seek medical attention if discomfort persists.

Section 5 – Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>68°F/20°C</td>
<td>LEL: 2%; UEL: 11.4%</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Method:
Extinguishing Media: Use CO2, dry chemical or small fires, or alcohol type aqueous film forming foam.

Fire Fighting Instructions:
If potential for exposure to vapors or products of combustion, wear complete personal protective equipment including self contained breathing apparatus, with full face operated in pressure demand. Fight fire from a safe distance/protected location.

Unusual Hazards:
Flammable. When exposed to heat and flame, material is a fire explosion hazard. Vapor is heavier than air and can travel considerable distance to source of ignition and flash back. Material creates a special hazard if it floats on water.

Section 6 – Accidental Release Measures

Spill or Release Procedures
Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

Section 7 – Handling and Storage

Handling
Closed containers exposed to temperature above (120°F) in transit or storage may develop vapor pressure. Open containers slowly. Ground all metal containers when transferring material. Wash face and hands thoroughly with soap and water after handling and before eating, drinking or smoking.

Storage
Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use. DO NOT STORE IN METAL CONTAINERS. Failure to comply with proper storage instructions will result in the material being non-refundable.

Explosion Hazard
Flammable liquid. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls
Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Personal Protective Equipment
General
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection
Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses.

Skin Protection
Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Neoprene and Nitrile rubber is better than PVC.

Date of Issue: 02/03/2010
Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor &amp; Odor Threshold</th>
<th>pH (H2O = 1): 0.82</th>
<th>Specific Gravity</th>
<th>Viscosity</th>
<th>% Volatile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear, colorless, mobile liquid</td>
<td>fruity, pungent mix odor</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>W/W % ; 99+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point/Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Octanol/Water Partitioning Coefficient Log Po/w</th>
<th>Vapor Pressure:</th>
<th>Vapor Density</th>
<th>Evaporation Rate</th>
<th>Ignition</th>
<th>Solubility In Water (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>77°C</td>
<td>N/DA</td>
<td>N/DA</td>
<td>73 mm Hg @20°C</td>
<td>(Air=1): 3.0</td>
<td>(Butyl Acetate=1): 4.5</td>
<td>N/A</td>
<td>8.7 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>68°F/20°C</td>
<td>LEL: 2 % ; UEL: 11.4 %</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Section 10 – Stability and Reactivity

Stability: Stable

Incompatibility (Materials to Avoid):
Oxidizing Agent i.e. Hydrogen peroxide, Nitric Acid, Perchloric Acid, Chromium Trioxide

Hazardous Decomposition Products:
Carbon Monoxide

Hazardous Polymerization:
Will not occur

Conditions to Avoid: Heat, flames, ignition sources, and incompatibles

Section 11 – Toxicological Information

<table>
<thead>
<tr>
<th>Acute Oral Toxicity</th>
<th>Acute Dermal Toxicity</th>
<th>Acute Inhalation Toxicity</th>
<th>Irritation – skin</th>
<th>Irritation – Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse: LD50 = 3600 mg/kg</td>
<td>N/DA</td>
<td>Rat = 1030 ug/m3/16W</td>
<td>Skin, rabbit LD50 = 12800 mg/kg.</td>
<td>N/ DA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Mutagenicity</th>
<th>Sub-chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/ DA</td>
<td>Rat = 1030 ug/m3/16W</td>
<td>N/ DA</td>
</tr>
</tbody>
</table>

Section 12 – Ecological Information

Ecotoxicological Information

<table>
<thead>
<tr>
<th>Acute Toxicity to Fish</th>
<th>Acute Toxicity to Invertebrates</th>
<th>Acute Toxicity to Algae</th>
<th>Bioconcentration</th>
<th>Toxicity to Sewage Bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>The LC50/96-hour values for fish are over 100 mg/l.</td>
<td>N/ DA</td>
<td>N/ DA</td>
<td>N/ DA</td>
<td>N/ DA</td>
</tr>
</tbody>
</table>

Chemical Fate Information

Biodegradable

When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

Chemical Oxygen Demand | N/ DA |

Section 13 – Disposable Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Date of Issue: 02/03/2010
Section 14 – Transport Information

DOT (49 CFR 172):
Proper Shipping Name: UN1993, Flammable liquids, n.o.s., (ethyl acetate, isopropyl alcohol), 3, PGII
Identification Number: UN1993
Marine Pollutant: No
Special Provisions: T8, T31
Emergency Response Guidebook (ERG) #: 128
IATA (DGR):
Proper Shipping Name: UN1993, Flammable liquids, n.o.s., (ethyl acetate, isopropyl alcohol), 3, PGII
Class or Division: 3
UN or ID Number: UN1993
Packaging Instructions:
Emergency Response Guidance (ICAO)#:
IMO (IMDG):
Proper Shipping Name: UN1993, Flammable liquids, n.o.s., (ethyl acetate, isopropyl alcohol), 3, PGII
Class or Division: 3,2
UN or ID Number: UN1993
Special Provisions & Stowage/Segregation: None
Emergency Schedule (EmS)#:
Other Information: Flash point = 20°C

Section 15 – Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS
This product contains the following HAP’s or ODS:
- NONE

Clean Water Act: Priority Pollutant
The following ingredients are listed as hazardous pollutants under the CWA:
- NONB
None of the ingredients are listed as primary pollutants nor are they listed as toxic pollutants.

FDA: Food Packaging Status
This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive.

Occupational Safety and Health Act
This product is considered to be hazardous under the OSHA Hazard Communication Standard. It's hazards are:
- Immediate (acute) health hazard
- Fire hazard

RCRA
This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261).
- Ethyl Acetate CAS#141-78-6, RCRA Code: U112
- Characteristic of Ignitability, RCRA Code: D001

SARA Title III: Section 302 (RQ)
This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Title III: Section 302 (TPQ)
This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification (“CERCLA” List):
- Ethyl Acetate CAS# 141-78-6, RQ (Lbs) 5000

SARA Title III: Section 311-312:
This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). It’s hazards are:
- Immediate (acute) health hazard
- Fire hazard

Date of Issue: 02/03/2010
### SARA Title III: Section 313:
This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
- Isopropyl Alcohol CAS# 67-63-0

### TSCA Section 8(b): Inventory:
This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

### TSCA Significant New Use Rule:
None of the chemicals in this material have a SNUR under TSCA.

### State Regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
<tr>
<td>California No Significant Risk Rule:</td>
<td>None</td>
</tr>
<tr>
<td>MA Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
<tr>
<td>NJ Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
<tr>
<td>PA Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
<tr>
<td>FL Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
<tr>
<td>MN Right-to-Know Law:</td>
<td>Ethyl Acetate CAS# 141-78-6, Isopropyl Alcohol CAS #67-63-0</td>
</tr>
</tbody>
</table>

### International Regulations

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDSSL: Canadian Inventory (on Canadian Transitional List)</td>
<td>Ethyl Acetate CAS# 141-78-6 is on the DSL List. WHMIS = B2, D2B</td>
</tr>
<tr>
<td></td>
<td>Isopropyl Alcohol CAS #67-63-0 is on the DSL List. WHMIS = n/a</td>
</tr>
</tbody>
</table>

### Labeling according to EC directives - 1999/45/EC

#### European Community:

**B-1 Wiping Solution:**
- **HAZARD SYMBOLS:** Xi, F: Irritant, Highly Flammable
- **RISK PHRASES:** R11, highly flammable, R36/37/38: Irritating to eyes, respiratory system and skin, R66: Repeated exposure may cause skin dryness or cracking, R67: Vapours may cause drowsiness and dizziness.
- **SAFETY PHRASES:** S7/9: keep container tightly closed and in a well ventilated place, S16: keep away from sources of ignition - no smoking, S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S33: take precautionary measures against static discharges, S37/39: wear suitable gloves and eyewash protection, S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

### Section 16 – Other Information

#### EU Classes and Risk / Safety Phrases for Referenced Ingredients [See Section 2]:

- **Hazard Symbol:**
  - Xi – Irritants
  - F – Flammable substances or preparations

- **Risk Phrases:**
  - R11 Highly flammable; R36 Irritating to eyes; R66 Repeated exposure may cause skin dryness or cracking; R67 Vapors may cause drowsiness and dizziness

- **Safety Phrases:**
  - S2 Keep out of the reach of children; S7 Keep container tightly closed; S16 Keep away from sources of ignition – No smoking; S24/25 Avoid contact with skin and eyes; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S33 Take precautionary measures against static discharges

---

Date of Issue: 02/03/2010
Material Safety Data Sheet  B-1 WIPING SOLUTION

Hazard Rating System (Pictograms)

NFPA:  
- Flammability
- Health
- Reactivity

HMIS:
- Health
- Flammability
- Reactivity

MSDS Prepared by: BSQ
Revision History:
- Updated Section # 2.
- 09/01/05 Updated Section # 1 and 7.
- 12/20/07 DOT Name update
- 09/17/08 Updated section 16
- 10/21/08 Updated format
- 11/19/08 Updated Risk and Safety Phrases
- 12/10/08 Updated specific gravity
- 03/16/09 Updated to meet Globally Harmonized System requirements. Added the BU address to section 1. Switched location of section 2 with section 3. Changed the title in sections 1, 8, and 13. Moved MSDS preparation to section 16.
- 02/03/10 Added international emergency phone number to section 1

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KRP components are provided on an as is basis without warranties of any kind either expressed or implied. KRP does not warrant the use or the results of use of the materials sold on an as is basis since they are intended for remanufacturing or repackaging. It is the sole responsibility of the user to examine and determine appropriate application and regulatory requirements associated with said KRP components.

Date of Issue: 02/03/2010
Material Safety Data Sheet

Section 1 - Identification
Product Name: GelPolish Base/Top Gel
Manufacturer: KEYSSTONE INDUSTRIES
616 Hollywood Ave. Cherry Hill, NJ 08002
Information Contacts: (856)-663-4700
Emergency Phone Numbers: US & Canada (800) 535 - 5053
EU Address: KEYSSTONE EUROPE BV
Batavenweg 7
5349BC OSS, Netherlands
Emergency Phone Numbers: International: 1-352-323-3500

Chemical Name: N/A
Family: UV GELS
Product Use: NAIL GEL
Product #: 4025999

Section 2 - Hazards Identification

EMERGENCY OVERVIEW
This information may be based on findings from related or similar materials.

- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause eye irritation.

Potential Health Effects, Signs and Symptoms of Exposure:
Primary Route of Entry No specific information is available for this product. Although, this product opposes only slight irritation concern with all routes of entry.

Eye No specific information available. Contains materials that are essentially nonirritating, but contact may cause slight transient irritation.

Skin No specific information available. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Ingestion No specific information available. Contains materials that may be practically nontoxic.

Inhalation No specific information available. Low volatility makes vapor inhalation unlikely.

Sub-Chronic Effects No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Acrylate</td>
<td></td>
<td></td>
<td></td>
<td>OSHA TWA/STEL</td>
</tr>
<tr>
<td>Oligomer</td>
<td></td>
<td></td>
<td></td>
<td>ACGBH TWA/STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IARC/NT/OSHA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Hydroxyethyl Methacrylate</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>HEMA</td>
<td>N/E</td>
</tr>
<tr>
<td>2-Hydroxypropyl Methacrylate</td>
<td>27813-02-1</td>
<td>248-666-3</td>
<td>Hydroxycyclohexyl methacrylate</td>
<td>N/E</td>
</tr>
<tr>
<td>Hydroxycyclohexyl phenyl ketone</td>
<td>947-19-3</td>
<td>213-426-9</td>
<td>Hydroxycyclohexyl phenyl ketone</td>
<td>N/E</td>
</tr>
<tr>
<td>D&amp;C Violet #2</td>
<td>81-48-1</td>
<td>201-353-5</td>
<td>Violet 2/C160725</td>
<td>N/E</td>
</tr>
<tr>
<td>TPO</td>
<td>75990-60-8</td>
<td>278-355-8</td>
<td>Trimethylbenzoyl diphenylphosphine oxide</td>
<td>N/E</td>
</tr>
</tbody>
</table>

N/E - Not Established
N/A - Not Available
* See section 16

Section 4 - First Aid Measures

First Aid for Eye
Flush with plenty of water for 15 minutes and retract eyelids often. Seek medical attention immediately.

Date of Issue: 08/04/2011
**Section 5 - Fire Fighting Measures**

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-Ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 212°F/100°C Seta/flash</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

**Method: Extinguishing Media:** Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

**Fire Fighting Instructions:** Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

**Unusual Hazards:** High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since fuming can occur.

**Section 6 - Accidental Release Measures**

**Spill or Release Procedures:** Spontaneous polymerization can occur. Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well-ventilated area. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/hovel into disposal container. Wash spill area with strong detergent and water solution, rinse with water, but minimize water usage during clean-up. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll-free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

**Section 7 - Handling and Storage**

**Handling:** Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light. Remove all contaminated clothing, shoes, belts and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential.

Most acrylic monomers have low viscosities, thus only needing room temperature conditions to facilitate proper pouring techniques. However, viscous type gels such as these may require heating to facilitate proper pouring techniques. To ensure that this happens, product may be heated to 60°C/140°F not for more than 24 hours. Do NOT use localized heat sources such as hand heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating/melting material. The hot box and/or room should only be set to a maximum temperature of 60°C/140°F. Do not overheat, this may compromise product effectiveness and should be avoided. Refrains from multiple recoatings of product, this will also diminishing the quality of the product.

**Storage:** Product is extremely light sensitive. If exposed to natural light or UV light, material will cure very quickly. Store in a cool, dry place, away from heat and all types of light. Store at temperatures below 100°F/38°C but above the product's freezing point. If no freezing point is given, keep above 32°F/0°C at all times.

**Explosion Hazard:** High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.

**Section 8 - Exposure Controls / Personal Protection**

**Engineering Controls:** Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

**Personal Protective Equipment General:** To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

**Eye/ Face Protection:** Wear chemical splash goggles.

**Skin Protection:** Wear impervious gloves (Neoprene).
Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear to slight violet, viscous liquid</td>
</tr>
<tr>
<td>Odor &amp; Odor Threshold</td>
<td>Characteristic acrylate odor</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>(H2O-1): 1.15</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/DA</td>
</tr>
<tr>
<td>% Volatile</td>
<td>By Volume: &lt;0.5</td>
</tr>
<tr>
<td>Boiling Point/Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Octanol/Water Partitioning Coefficient Log P/W</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>(mm Hg) @ 20°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Data</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No Data</td>
</tr>
<tr>
<td>Ignition</td>
<td>No Data</td>
</tr>
<tr>
<td>Solubility In Water (20°C)</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Stability
- Normally Stable

Incompatibility (Materials to Avoid):
- Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust and strong bases.
- Hazardous Polymerization:
- May occur – Uncontrolled polymerization may cause rapid evolution of heat and increased pressure that could result in violent rupture of scaled storage vessels or containers.

Hazardous Decomposition Products:
- Fumes produced when heated to decomposition may include:
  - carbon monoxide, carbon dioxide.

Conditions to Avoid:
- Storage >100°F/38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Section 11 - Toxicological Information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Tox.</td>
<td>No information available</td>
</tr>
<tr>
<td>Acute Dermal Tox.</td>
<td>No information available</td>
</tr>
<tr>
<td>Acute Inhalation Tox.</td>
<td>No information available</td>
</tr>
<tr>
<td>Irritation - skin</td>
<td>No information available</td>
</tr>
<tr>
<td>Irritation - Eye</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Since this product contains a very low concentration of active components, the primary toxicological information is derived from the oligomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Ecological Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity to Fish</td>
<td>N/DA</td>
</tr>
<tr>
<td>Acute Toxicity to Invertebrates</td>
<td>N/DA</td>
</tr>
<tr>
<td>Acute Toxicity to Algae</td>
<td>N/DA</td>
</tr>
<tr>
<td>Bioconcentration</td>
<td>N/DA</td>
</tr>
<tr>
<td>Toxicity to Sewage Bacteria</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Chemical Fate Information
- Biodegradability: N/DA
- Chemical Oxygen Demand: N/DA

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

Section 13 - Disposal Considerations

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. It is the generator's responsibility to determine what is classified as a hazardous waste. Comply with all federal, state, and local regulations.

Date of Issue: 08/04/2011
Material Safety Data Sheet

Disperse of flammable materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT (49 CFR 172)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Non-Regulated Material</td>
</tr>
<tr>
<td>Identification Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Marine Pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>N/A</td>
</tr>
<tr>
<td>Emergency Response Guidebook (ERG) #:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IATA (DGIR):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Non-Regulated Material</td>
</tr>
<tr>
<td>Class or Division:</td>
<td>N/A</td>
</tr>
<tr>
<td>UN or ID Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Packaging Instructions:</td>
<td></td>
</tr>
<tr>
<td>Emergency Response Guidance (ICAO)#:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMO (IMDG):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Non-Regulated Material</td>
</tr>
<tr>
<td>Class or Division:</td>
<td>N/A</td>
</tr>
<tr>
<td>UN or ID Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Special Provisions &amp; Stowage/Segregation:</td>
<td>None</td>
</tr>
<tr>
<td>Emergency Schedule (EmS)#:</td>
<td></td>
</tr>
<tr>
<td>Other Information:</td>
<td>Flash point &gt; 100°C</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

**US Federal Regulations**

**Clean Air Act: HAP/ODS**
- This product contains the following hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act:
  - NONE
  - This product contains no ODS's

**Clean Water Act: Priority Pollutant**
- This product contains no chemicals listed under the U.S. Clean Water Act Priority Pollutant List.

**FDA: Food Packaging Status**
- This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.

**Occupational Safety and Health Act**
- This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are:
  - Immediate (acute) health hazard
  - Delayed (chronic) health hazard
  - Reactive hazard

**RCRA**
- This product is not considered to be a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 302 (TPQ)**
- This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.

**SARA Title III: Section 302 (RQ)**
- This product contains no chemicals regulated under Section 304 as extremely hazardous. chemical for emergency release notification ("CERCLA" List).

**SARA Title III: Section 311-312:**
- This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:
  - Immediate (acute) health hazard
  - Delayed (chronic) health hazard
  - Reactive hazard

**SARA Title III: Section 313:**
- This product contains no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**TSCA Section 8(b): Inventory:**
- This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

Date of Issue: 08/04/2011
Material Safety Data Sheet

Gel Polish

Base/Top Gel

TSCA Significant New Use Rule: None of the chemicals listed have a SNUR under TSCA.

State Regulations

- CA Right-to-Know Law: NONE
- MA Right-to-Know Law: NONE
- NJ Right-to-Know Law: NONE
- PA Right-to-Know Law: NONE
- FL Right-to-Know: NONE
- MN Right-to-Know: NONE

International Regulations

- CDSI: Canadian Inventory (on Canadian Transitional List) Hydroxypropyl methacrylate CAS #27813-02-1 is on the DSL List. WHMIS = D2B
- Hydroxycyclohexyl phenyl ketone CAS# 947-19-3 is on the DSL list. WHMIS = n/da
- 2-Hydroxyethyl methacrylate CAS# 868-77-9 is on the DSL List. WHMIS = n/da

Labeling according to EC directives – 1999/45/EC

European Community: Gel Polish Base/Top Gel:
- HAZARD SYMBOLS: X1: Irritant
- RISK PHRASES: R22: Harmful if swallowed, R36/37/38: Irritating to eyes and skin
- SAFETY PHRASES: S18: Handle and open container with care, S24/25: avoid contact with skin and eyes, S36/37: Wear suitable protective clothing and gloves, S38: in case of insufficient ventilation, wear suitable respiratory equipment

Section 16 - Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

Hazard Symbol:
- X1 – Irritants

Risk Phrases:
- R36/37/38: Irritating to eyes, respiratory system and skin; R36/38: Irritating to eyes and skin; R43: May cause sensitisation by skin contact

Safety Phrases:
- S2: Keep out of the reach of children; S3/7: Keep container tightly closed in a cool place; S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S28: After contact with skin, wash immediately with plenty of water; S36/37: Wear suitable protective clothing and gloves; S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

Hazard Rating System (Pictograms)

NIPPA:
- Flammability
- Reactivity

HMIS:
- Health
- Flammability
- Reactivity

MSDS Prepared by: JRR

Revision History:
- 10/18/10 Initial version.
- * Most Keystone gels are composed of oligomers made primarily from urethane (meth)acrylates. Keystone is using the designation El HEMA Triethoxysyl Diurethane, the official HSCT name of urethane dimethacrylate, which is substantially the equivalent of Polyurethane Acrylate Oligomer.
- 08/04/11 Updated Composition

Date of Issue: 08/04/2011
The information presented herein was obtained from sources considered to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness or suitability for consumers intended use and/or application. For this and other reasons, we assume no responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared expressly for this product. Use the materials only as directed. If the product is used as a component of another product, the information contained within the MSDS may not be applicable. If there are any problems or concerns understanding this MSDS form, please direct all questions to INFOTRAC, Chemical Emergency Resources System at 1(800) 535-5053.

KRP components are provided on an as is basis without warranties of any kind either expressed or implied. KRP does not warrant the use or the results of use of the materials sold on an as is basis since they are intended for remanufacturing or repackaging. It is the sole responsibility of the user to examine and determine appropriate application and regulatory requirements associated with said KRP components.
Section 1 - Identification

Product Name: Gel Polish Non Solvent
Chemical Name: N/A
Family: UV GELS
Product Use: NAIL GBL

Section 2 - Hazards Identification

**EMERGENCY OVERVIEW**
This information may be based on findings from related or similar materials.

- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause eye irritation.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry: No specific information is available for this product. Although, this product opposes only slight irritation concern with all routes of entry.

Eye: No specific information available. Contains materials that are essentially nonirritating, but contact may cause slight transient irritation.

Skin: No specific information available. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Ingestion: No specific information available. Contains materials that may be practically nontoxic.

Inhalation: No specific information available. Low volatility makes vapor inhalation unlikely.

Sub-Chronic Effects: No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure OSHA TWA/STEL</th>
<th>Limits ACGIH TWA/STEL</th>
<th>Carcinogen IARC/NTI/OSHA</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Acrylate Oligomer</td>
<td>Exempt</td>
<td>N/E</td>
<td>Di-Hema Trimethylhexyl Dinociane*</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>50-65</td>
</tr>
<tr>
<td>2-Hydroxyethyl Methacrylate</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>HFMA</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>5-10</td>
</tr>
<tr>
<td>Hydroxypropyl Methacrylate</td>
<td>27813-02-1</td>
<td>248-666-3</td>
<td>Hydroxypropyl methacrylate</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>5-10</td>
</tr>
<tr>
<td>Polyethylene Glycol 400 Dimethacrylate</td>
<td>25852-47-5</td>
<td>N/E</td>
<td>PEG-9 Dimethacrylate</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>1-7</td>
</tr>
<tr>
<td>Hydroxyecyclohexyl Phenyl Ketone</td>
<td>947-19-3</td>
<td>213-426-9</td>
<td>Hydroxyecyclohexyl phenyl ketone</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>1-2</td>
</tr>
<tr>
<td>TPO</td>
<td>75980-60-8</td>
<td>278-355-8</td>
<td>Trimethylbenzyl diphenylphosphine oxide</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>0-1</td>
</tr>
</tbody>
</table>

**May Contain the following:** Please see Section 16 for additional compounds

<table>
<thead>
<tr>
<th>N/A - None Established</th>
<th>NDA - No Data Available</th>
<th>N/R - Not Reviewed</th>
<th>N/A - Not Applicable</th>
<th>* See section 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Acrylate Oligomer</td>
<td>Hazard Symbol: Xi</td>
<td>Risk Phrases: R36/37/38</td>
<td>Safety Phrases: S14, S37, S62</td>
<td></td>
</tr>
<tr>
<td>2-Hydroxyethyl Methacrylate</td>
<td>Hazard Symbols - Xi</td>
<td>Risk Phrases: R36/38, R43</td>
<td>Safety Phrases: S2, S26, S28</td>
<td></td>
</tr>
<tr>
<td>Hydroxypropyl Methacrylate</td>
<td>Hazard Symbol: Xi</td>
<td>Risk Phrases: R36/37/38, R43</td>
<td>Safety Phrases: S26, S16/37</td>
<td></td>
</tr>
</tbody>
</table>

Date of Issue: 05/22/2012
Section 4 - First Aid Measures

First Aid for Eye: Flush with plenty of water for 15 minutes and retract eyelids often. Seek medical attention immediately.

First Aid for Skin: Remove contaminated clothing and wash contact area with soap and water for 15 minutes.

First Aid for Inhalation: In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.

First Aid for Ingestion: If appreciable quantities are swallowed, seek medical attention.

Section 5 - Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flash Point (^{oF}/^{°C})</th>
<th>Flammable Limit (\text{vol}%)</th>
<th>Auto-Ignition Temperature (\text{vol}%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Data (&gt;212^\circ F/100^\circ C)</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Method: Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

Extinguishing Media: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

Unusual Hazards: High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since frothing can occur.

Section 6 - Accidental Release Measures

Spill or Release Procedures: Spontaneous polymerization can occur. Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/SHovel into disposal container. Wash spill area with strong detergent and water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer! US Regulations (OFR/ICRCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light. Remove all contaminated clothing, shoes, belts and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential.

Most acrylic monomers have low viscosities, thus only needing room temperature conditions to facilitate proper pouring techniques. However, viscous type gels such as these may require heating to facilitate proper pouring techniques. To ensure that this happens, product may be heated to 60°F/140°F for not more than 24 hours. Do NOT use localized heat sources such as band heaters to heat/melt product. DO NOT use steam. Hot boxes or hot rooms are recommended for heating/melting material. The hot box and/or room should only be set to a maximum temperature of 60°F/140°F. Do not overheat, this may compromise product effectiveness and should be avoided. Refrain from multiple reheating of product, this will also diminishing the quality of the product.

Storage: Product is extremely light sensitive. If exposed to natural light or UV light, material will cure very quickly. Store in a cool, dry place, away from heat and all types of light. Store at temperatures below 100°F/38°C but above the product's freezing point. If no freezing point is given, keep above 32°F/0°C at all times.

Explosion Hazard: High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.

Section 8 - Exposure Controls / Personal Protection

Date of Issue: 05/22/2012
Engineering Controls
Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

Personal Protective Equipment

General
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection
Wear chemical splash goggles.

Skin Protection
Wear impervious gloves (Neoprene).

Respiratory Protection
A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by nuisance level organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor &amp; Odor Threshold</th>
<th>pH</th>
<th>Specific Gravity</th>
<th>Viscosity</th>
<th>% Volatile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear to slight violet, viscous liquid</td>
<td>characteristic acrylate odor</td>
<td>NA</td>
<td>(H₂O=1): 1.15</td>
<td>(at 77°F/25°C): 1.500-6000cP</td>
<td>By Volume: 5.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point/ Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Octanol/Water Partitioning Coefficient Log Po/w</th>
<th>Vapor Pressure:</th>
<th>Vapor Density</th>
<th>Evaporation Rate</th>
<th>Ignition</th>
<th>Solubility In Water (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>(mm Hg) (at 20°C) (&lt; 0.01)</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-Ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 212°F/100°C</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Stability
Normally Stable

Hazardous Decomposition Products:
Fumes produced when heated to decomposition may include:
carbon monoxide, carbon dioxide.

Conditions to Avoid:
Storage >100°F/38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Section 11 - Toxicological Information

Acute Oral Toxicity: No information available
Acute Dermal Toxicity: No information available
Acute Inhalation Toxicity: No information available
Irritation - skin: No information available
Irritation - Eye: No information available

Since this product contains a very low concentration of active components, the primary toxicological information is derived from the oligomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

<table>
<thead>
<tr>
<th>Seastisation</th>
<th>Mutagenicity</th>
<th>Sub-chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

Ecotoxicological Information

Date of Issue: 05/22/2012
Material Safety Data Sheet

Section 13 - Disposal Considerations

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. It is the generator's responsibility to determine what is classified as a hazardous waste. Comply with all federal, state, and local regulations.

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Section 14 - Transport Information

DOT (49 CFR 172):
- Proper Shipping Name: Non-Regulated Material
- Identification Number: N/A
- Marine Pollutant: No
- Special Provisions: N/A
- Emergency Response Guidebook (ERG) #: N/A

IATA (DGR):
- Proper Shipping Name: Non-Regulated Material
- Class or Division: N/A
- UN or ID Number: N/A
- Packaging Instructions:
- Emergency Response Guidance (ICAO) #: N/A

IMO (IMDG):
- Proper Shipping Name: Non-Regulated Material
- Class or Division: N/A
- UN or ID Number: N/A
- Special Provisions & Stowage/Segregation: None
- Emergency Schedule (EmS) #: N/A
- Other Information: Flash point > 100°C

Section 15 - Regulatory Information

US Federal Regulations

- Clean Air Act: HAP/ODS
  - This product contains the following hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act:
    - NONE
  - This product contains no ODS's
- Clean Water Act: Priority Pollutant
  - This product contains the following chemicals listed under the U.S. Clean Water Act Priority Pollutant and Hazardous Substance List:
    - NONE
- FDA: Food Packaging Status
  - This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.
### Occupational Safety and Health Act
This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are:
- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

### RCRA
This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261):
- NONE

### SARA Title III: Section 302 (TPQ)
This product contains the following chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ:
- NONE

### SARA Title III: Section 302 (RQ)
- This product contains no chemicals regulated under Section 304 as extremely hazardous chemical for emergency release notification ("CERCLA" List).

### SARA Title III: Section 311-312:
This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:
- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

### SARA Title III: Section 313:
This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
- NONE

### TSCA Section 8(b): Inventory:
This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

### TSCA Significant New Use Rule:
None of the chemicals listed have a SNUR under TSCA.

### State Regulations
- **CA Right-to-Know Law:** NONE
- **California No Significant Risk Rule:** NONE
- **MA Right-to-Know Law:** NONE
- **NJ Right-to-Know Law:** NONE
- **PA Right-to-Know Law:** NONE
- **FL Right-to-Know:** NONE
- **MN Right-to-Know:** NONE

### International Regulations
- **CDSL: Canadian Inventory (on Canadian Transitional List):**
  - Hydroxypropyl methacrylate CAS #27813-02-1 is on the DSL List. WHMIS = D2B
  - Hydroxyethyl phenyl ketone CAS# 947-19-3 is on the DSL List. WHMIS = n/da
  - 2-Hydroxyethyl methacrylate CAS# 866-77-9 is on the DSL List. WHMIS = n/da

### Labeling according to EC directives – 1999/45/EC
**European Community:**
- **Gel/POLISH Non Solvent:**
  - **HAZARD SYMBOLS:** XI: Irritant
  - **RISK PHRASES:** R22: Harmful if swallowed, R36/38: Irritating to eyes and skin
  - **SAFETY PHRASES:** S18: Handle and open container with care, S24/25: avoid contact with skin and eyes, S36/37: Wear suitable protective clothing and gloves, S38: in case of insufficient ventilation, wear suitable respiratory equipment.

### Section 16 - Other Information
#### EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):
- **Hazard Symbol:**
  - XI - Irritants
- **Risk Phrases:**
  - R36 - Irritating to eyes; R43 - May cause sensitization by skin contact; R66 - Repeated exposure may cause skin dryness and cracking; R67 - Vapors may cause drowsiness and dizziness; R36/37/38 - Irritating to eyes, respiratory system and skin; R36/38 - Irritating to eyes and skin
- **Safety Phrases:**

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**Material Safety Data Sheet**

**Gel Polish**

**NON SOLVENT**

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**Hazard Rating System (Pictograms)**

- Flammability: 1
- Reactivity: 1

---

**MSDS Prepared by:**

02/09/2012 Initial issue.

Most Keystone gels are composed of oligomers made primarily from urethane (meth)acrylates. Keystone is using the designation DIHEMA Trimethylolpropane Diacrylate, the official INCI name of urethane dimethacrylate, which is substantially the equivalent of Polyethylene Acrylate Oligomer.

05/09/2012 Update may contain section

05/22/2012 Update may contain section

---

**MAY CONTAIN THE FOLLOWING CHEMICALS:**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Numbers</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure Limits</th>
<th>Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>Titanium Dioxide/C177891</td>
<td>15 mg/m3</td>
<td>0-2</td>
</tr>
<tr>
<td>Yellow Iron Oxide</td>
<td>51274-00-1</td>
<td>257-698-5</td>
<td>Iron Oxide/C177492</td>
<td>N/E</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Red Iron Oxide</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>Iron Oxide/C177491</td>
<td>N/E*</td>
<td>Not Listed</td>
</tr>
<tr>
<td>D&amp;C Red 7</td>
<td>5281-04-9</td>
<td>226-109-5</td>
<td>Red 7/C153850</td>
<td>N/E</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Synthetic Red Iron Oxide</td>
<td>1309-37-1</td>
<td>N/E</td>
<td>Iron Oxide/C177491</td>
<td>N/E</td>
<td>Not Listed</td>
</tr>
<tr>
<td>D&amp;C Orange No. 4</td>
<td>633-96-5</td>
<td>211-199-0</td>
<td>Orange 4/C155110</td>
<td>N/E</td>
<td>Not Listed</td>
</tr>
<tr>
<td>D&amp;C Violet #2</td>
<td>81-48-1</td>
<td>201-353-5</td>
<td>Violet 2/C160725</td>
<td>N/E</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>310-127-6</td>
<td>Mica</td>
<td>N/E</td>
<td>3mg/m3</td>
</tr>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>1934-21-0</td>
<td>217-699-5</td>
<td>Yellow 5/C19140</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>D&amp;C Red #6</td>
<td>5858-81-1</td>
<td>227-497-9</td>
<td>Red 6/C13850</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>D&amp;C Red #34</td>
<td>6417-83-0</td>
<td>229-142-3</td>
<td>Red 34/C15580</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Cosmetic Iron Blue</td>
<td>14038-43-8</td>
<td>237-875-5</td>
<td>Ferric Iron Oxide/C177510</td>
<td>N/DA</td>
<td>0-2</td>
</tr>
<tr>
<td>D&amp;C Yellow #10</td>
<td>6004-92-0</td>
<td>N/DA</td>
<td>Yellow 10/C157055/E104</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ultramarine Blue</td>
<td>57455-37-5</td>
<td>N/DA</td>
<td>Ultramarine/C17007</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Manganese Violet</td>
<td>10101-66-3</td>
<td>233-257-4</td>
<td>Manganese Violete/C17742</td>
<td>N/DA</td>
<td>Not Listed</td>
</tr>
<tr>
<td>FD&amp;C Blue #1</td>
<td>3844-45-9</td>
<td>223-339-8</td>
<td>Blue 1/C142090</td>
<td>N/E</td>
<td>0.1 mg/PAL/5h</td>
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<tr>
<td>D&amp;C Black #2</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>Carbon Black/C177266</td>
<td>3.5mg/m3</td>
<td>0-2</td>
</tr>
</tbody>
</table>

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**Date of Issue:** 05/22/2012
<table>
<thead>
<tr>
<th>Material</th>
<th>CAS Number</th>
<th>Hydrocarbon (PAHs)</th>
<th>N/E</th>
<th>N/E*</th>
<th>Not Listed</th>
<th>N/DA</th>
<th>N/DA</th>
<th>0/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide Black</td>
<td>1317-61-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bismuth Oxysulfide</td>
<td>7787-59-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-2</td>
</tr>
<tr>
<td>D&amp;C Red #27</td>
<td>13473-26-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-2</td>
</tr>
<tr>
<td>Calcium Oxysulfide</td>
<td>65997-17-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-2</td>
</tr>
<tr>
<td>Silicon Dioxide</td>
<td>60676-86-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-2</td>
</tr>
<tr>
<td>Aluminum Powder</td>
<td>7429-90-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0-2</td>
</tr>
</tbody>
</table>

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KRP components are provided on an as is basis without warranties of any kind either expressed or implied. KRP does not warrant the use or the results of use of the materials sold on an as is basis since they are intended for remanufacturing or reprocessing. It is the sole responsibility of the user to examine and determine appropriate application and regulatory requirements associated with said KRP components.
Section 1 - Identification

Product Name: GelPolish Non Solvent
Chemical Name: N/A
Family: UV GELS
Product Use: NAIL GEL
Product#: various

Manufacturer: KEYSTONE INDUSTRIES
616 Hollywood Ave. Cherry Hill, NJ 08002
Information Contacts: (856)-663-4700
Emergency Phone Numbers: US & Canada( 800 ) 535 - 5053
EU Address: KEYSTONE EUROPE BV
Butavenweg 7
5349BC OSS, Netherlands
Emergency Phone Numbers: International: 1-352-323-3500

Section 2 - Hazards Identification

EMERGENCY OVERVIEW
This information may be based on findings from related or similar materials.

- May be slightly toxic.
- May cause moderate skin injury (reddening & swelling).
- May cause eye irritation.

Potential Health Effects, Signs and Symptoms of Exposure:
Primary Route of Entry: No specific information is available for this product. Although, this product opposes only slight irritation concern with all routes of entry.

Eye: No specific information available. Contains materials that are essentially nonirritating, but contact may cause slight transient irritation.

Skin: No specific information available. Contains materials that may cause moderate skin injury (reddening and swelling) and/or sensitization. Prolonged contact may cause blister formation (burns). Since irritation may not occur immediately, contact can go unnoticed.

Ingestion: No specific information available. Contains materials that may be practically nontoxic.

Inhalation: No specific information available. Low volatility makes vapor inhalation unlikely.

Sub-Chronic Effects: No specific information available. Limited tests showed no evidence of teratogenicity in animals. A lifetime skin painting study with mice showed no evidence of carcinogenicity.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure OSHA TWA/STEL</th>
<th>Limits ACGIH TWA/STEL</th>
<th>Carcinogen IARC/NTP/OSHA</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane Acrylate Oligomer</td>
<td>Exempt</td>
<td>N/E</td>
<td>Di-Hema Trimethylhexyl Dicarbamate*</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>50-65</td>
</tr>
<tr>
<td>2-Hydroxyethyl Methacrylate</td>
<td>868-77-9</td>
<td>212-782-2</td>
<td>HEMA</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>5-10</td>
</tr>
<tr>
<td>Hydroxypropyl Methacrylate</td>
<td>27813-02-1</td>
<td>248-606-3</td>
<td>Hydroxypropyl methacrylate</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>5-10</td>
</tr>
<tr>
<td>Polyethylene Glycol 400 Dimethacrylate</td>
<td>25852-47-5</td>
<td>N/E</td>
<td>PEG-9 Dimethacrylate</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>1-7</td>
</tr>
<tr>
<td>Hydroxycyclohexyl Phenyl Ketone</td>
<td>947-19-3</td>
<td>213-426-9</td>
<td>Hydroxycyclohexyl phenyl ketone</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>1-2</td>
</tr>
<tr>
<td>TPO</td>
<td>75980-60-8</td>
<td>278-355-8</td>
<td>Trimethylbenzoyl diphenylphosphine oxide</td>
<td>N/E</td>
<td>N/E</td>
<td>Not Listed</td>
<td>0-1</td>
</tr>
</tbody>
</table>

May Contain the following: Please see Section 16 for additional compounds

N/E - Not Established
N/DA - No Data Available
N/R - Not Reviewed
N/A - Not Applicable

* See section 16


Date of Issue: 05/22/2012
TPO: Hazard Symbol:  Risk Phrases: R99  Safety Phrases:

See Section 16 for Risk and Safety Phrase Key

Section 4 - First Aid Measures

First Aid for Eye  Flush with plenty of water for 15 minutes and retract eyelids often. Seek medical attention immediately.
First Aid for Skin  Remove contaminated clothing and wash contact area with soap and water for 15 minutes.
First Aid for Inhalation  In case of exposure to a high concentration of vapor or mist, remove person to fresh air. If breathing has stopped, administer artificial respiration and seek medical attention.
First Aid for Ingestion  If appreciable quantities are swallowed, seek medical attention.

Section 5 - Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 212°F/100°C Setaflash</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Method:
Extinguishing Media: Use carbon dioxide or dry chemical for small fires; aqueous foam or water for large fires.

Fire Fighting Instructions:
Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

Unusual Hazards:
High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers. Avoid the use of a stream of water to control fires since frothing can occur.

Section 6 - Accidental Release Measures

Spontaneous polymerization can occur. Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Dike and recover large spills. Soak up small spills with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Wash spill area with strong detergent and water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer.

US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. Dispose and report per regulatory requirements if necessary. Please prevent washings from entering waterways.

Section 7 - Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid breathing vapor. Keep container closed when not in use. Avoid prolonged exposure to light. The use of all contaminated clothing, shoes, bolts and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential.

Most acrylic monomers have low viscosities, thus only needing room temperature conditions to facilitate proper pouring techniques. However, viscous type gels such as these may require heating to facilitate proper pouring techniques. To ensure that this happens, product may be heated to 60°C/140°F for not more than 24 hours. Do NOT use localized heat sources such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating/melting material. The hot box and/or room should only be set to a maximum temperature of 60°C/140°F. Do not overheat, this may compromise product effectiveness and should be avoided. Refrain from multi-heating of product, this will also diminishing the quality of the product.

Storage
Product is extremely light sensitive. If exposed to natural light or UV light, material will cure very quickly. Store in a cool, dry place, away from heat and all types of light. Store at temperatures below 100°F/38°C but above the product's freezing point. If no freezing point is given, keep above 32°F/0°C at all times.

Explosion Hazard
High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of storage vessels or containers.

Section 8 - Exposure Controls / Personal Protection

Date of Issue: 05/22/2012
Engineering Controls
Local exhaust recommended to control exposure which may result from operations generating aerosols and hot operations generating vapors.

Personal Protective Equipment
General
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29 CFR 1910.132), or European Standard EN 166 be conducted before using this product. Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection
Wear chemical splash goggles.

Skin Protection
Wear impervious gloves (Neoprene).

Respiratory Protection
A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by nuisance level organic vapor dust masks can be used, however the use of the respirator is limited. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor &amp; Odor Threshold</th>
<th>pH</th>
<th>Specific Gravity</th>
<th>Viscosity</th>
<th>% Volatile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear to slight violet, viscous liquid</td>
<td>characteristic acrylate odor</td>
<td>NA</td>
<td>(H2O-1) : 1.15</td>
<td>(at 77°F/25°C) 1500-6000cP</td>
<td>By Volume : 5.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point/ Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Octanol/Water Partitioning Coefficient Log Po/w</th>
<th>Vapor Pressure:</th>
<th>Vapor Density</th>
<th>Evaporation Rate</th>
<th>Ignition</th>
<th>Solubility In Water (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>(mm Hg) @ 20 C : &lt; 0.01</td>
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<td>No Data</td>
<td>No Data</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-Ignition Temperature (°F/°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 212°F/100°C Ketilflash</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Stability
Normally Stable

Hazardous Decomposition Products:
Fumes produced when heated to decomposition may include:
carbon monoxide, carbon dioxide.

Conditions to Avoid:
Storage >100°F/38°C, exposure to light, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Section 11 - Toxicological Information

Acute Oral Toxicity | Acute Dermal Toxicity | Acute Inhalation Toxicity | Irritation - skin | Irritation - Eye |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Since this product contains a very low concentration of active components, the primary toxicological information is derived from the oligomers. Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization | Mutagenicity | Sub-chronic Toxicity |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

Ecotoxicological Information
Material Safety Data Sheet

Gel Polish  NON SOLVENT

<table>
<thead>
<tr>
<th>Acute Toxicity to Fish</th>
<th>Acute Toxicity to Invertebrates</th>
<th>Acute Toxicity to Algae</th>
<th>Bioconcentration</th>
<th>Toxicity to Sewage Bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Chemical Fate Information

Biodegradability: N/DA
Chemical Oxygen Demand: N/DA

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

Section 13 - Disposal Considerations

Non-contaminated, properly inhibited product is not a RCRA hazardous waste. It is the generators responsibility to determine what is classified as a hazardous waste. Comply with all federal, state, and local regulations. Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Section 14 - Transport Information

DOT (49 CFR 172):

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
<th>Non-Regulated Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Marine Pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>N/A</td>
</tr>
<tr>
<td>Emergency Response Guidebook (ERG) #:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

IATA (DGR):

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
<th>Non-Regulated Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class or Division:</td>
<td>N/A</td>
</tr>
<tr>
<td>UN or ID Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Packaging Instructions:</td>
<td></td>
</tr>
<tr>
<td>Emergency Response Guidance (ICAO)#:</td>
<td></td>
</tr>
</tbody>
</table>

IMO (IMDG):

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
<th>Non-Regulated Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class or Division:</td>
<td>N/A</td>
</tr>
<tr>
<td>UN or ID Number:</td>
<td>N/A</td>
</tr>
<tr>
<td>Special Provisions &amp; Stowage/Segregation:</td>
<td>None</td>
</tr>
<tr>
<td>Emergency Schedule (EmS)#:</td>
<td></td>
</tr>
<tr>
<td>Other Information:</td>
<td>Flash point &gt; 100°C</td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS
This product contains the following hazardous air pollutants (HAP), as defined by the U. S. Clean Air Act:
• NONE
This product contains no ODS’s

Clean Water Act: Priority Pollutant
This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List:
• NONE

FDA: Food Packaging Status
This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food additive.

Date of Issue: 05/22/2012
### Material Safety Data Sheet for Gel Polish

**Non Solvent**

**Occupational Safety and Health Act**
This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are:
- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

**RCRA**
This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261):
- NONE

**SARA Title III: Section 302 (TPQ)**
This product contains the following chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.
- NONE

**SARA Title III: Section 302 (RQ)**
This product contains no chemicals regulated under Section 304 as extremely hazardous chemical for emergency release notification ("CERCLA" List).

**SARA Title III: Section 311-312:**
This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:
- Immediate (acute) health hazard
- Delayed (chronic) health hazard
- Reactive hazard

**SARA Title III: Section 313:**
This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
- NONE

**TSCA Section 8(b): Inventory:**
This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premmanufacture notification requirements.

**TSCA Significant New Use Rule:**
None of the chemicals listed have a SNUR under TSCA.

### State Regulations

- **CA Right-to-Know Law:** NONE
- **California No Significant Risk Rule:** NONE
- **MA Right-to-Know Law:** NONE
- **NJ Right-to-Know Law:** NONE
- **PA Right-to-Know Law:** NONE
- **FL Right-to-Know:** NONE
- **MN Right-to-Know:** NONE

### International Regulations

- **CDSSL: Canadian Inventory (on Canadian Transitional List):**
  - Hydroxypropyl methacrylate CAS #27813-02-1 is on the DSL List. WHMIS = D2B
  - Hydroxyethyl cyclohexyl phenyl ketone CAS# 947-19-3 is on the DSL list. WHMIS = n/da
  - 2-Hydroxyethyl methacrylate CAS# 868-77-9 is on the DSL List. WHMIS = n/da

### Labeling according to EC directives – 1999/45/EC

**European Community:**
Gel Polish Non Solvent:
- **HAZARD SYMBOLS:** XI: IRRITANT
- **RISK PHRASES:** R22: Harmful if swallowed, R36/38: Irritating to eyes and skin
- **SAFETY PHRASES:** S18: Handle and open container with care, S24/25: avoid contact with skin and eyes, S36/37: Wear suitable protective clothing and gloves, S38: In case of insufficient ventilation, wear suitable respiratory equipment.

### Section 16 - Other Information

**EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):**

- **Hazard Symbol:** Xi - IRRITANT
- **Risk Phrases:** R36 - Irritating to eyes; R43 - May cause sensitization by skin contact; R66 - Repeated exposure may cause skin dryness and cracking; R67 - Vapors may cause drowsiness and dizziness, R36/37/38 - Irritating to eyes, respiratory system and skin; R36/38 - Irritating to eyes and skin

**Safety Phrases:**

*Date of Issue: 05/22/2012*
Hazard Rating System (Pictograms)

**NFPA:**
- **Flammability:** 1
- **Reactivity:**

**HMIS:**
- **Health:** 1
- **Flammability:**
- **Reactivity:**

---

**MSDS Prepared by:**
RMD

**Revision History:**
- 02/09/2012 Initial issue.
  - Most Keystone gels are composed of oligomers made primarily from urethane (meth)acrylates. Keystone is using the designation Di HEMA Trimethylol Dimethacrylate, which is the equivalent of Polyurethane Acrylate Oligomer.
- 05/09/2012 Update may contain section
- 05/22/2012 Update may contain section

**MAY CONTAIN THE FOLLOWING CHEMICALS:**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Numbers</th>
<th>EINECS#/INCI Name</th>
<th>Exposure Limits</th>
<th>Carcinogen</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA TWA/STEL</td>
<td>ACGIH TWA/STEL</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>Titanium Dioxide/C177891</td>
<td>15 mg/m3</td>
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<tr>
<td>Yellow Iron Oxide</td>
<td>51274-00-1</td>
<td>257-096-5</td>
<td>Iron Oxide/C177492</td>
<td>N/E</td>
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<tr>
<td>Red Iron Oxide</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>Iron Oxide/C177491</td>
<td>N/E*</td>
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<tr>
<td>D&amp;C Red 7</td>
<td>5281-04-9</td>
<td>226-109-5</td>
<td>Red 7/C115850</td>
<td>N/E</td>
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<tr>
<td>Synthetic Red Iron Oxide</td>
<td>1309-37-1</td>
<td>N/E</td>
<td>Iron Oxide/C177491</td>
<td>N/E</td>
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<tr>
<td>D&amp;C Orange No. 4</td>
<td>633-96-5</td>
<td>211-199-0</td>
<td>Orange 4/C15510</td>
<td>N/E</td>
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<tr>
<td>D&amp;C Violet #2</td>
<td>81-48-1</td>
<td>201-353-5</td>
<td>Violet 2/C160725</td>
<td>N/E</td>
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<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>310-127-6</td>
<td>Mica</td>
<td>N/E</td>
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<tr>
<td>FD&amp;C Yellow #5</td>
<td>1934-21-0</td>
<td>217-699-5</td>
<td>Yellow 5/C19140</td>
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<tr>
<td>D&amp;C Red #6</td>
<td>5858-81-1</td>
<td>227-497-9</td>
<td>Red 6/C135850</td>
<td>N/DA</td>
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<tr>
<td>D&amp;C Red #34</td>
<td>6417-83-0</td>
<td>229-142-3</td>
<td>Red 34/C13580</td>
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<tr>
<td>Cosmetic Iron Blue</td>
<td>14038-43-8</td>
<td>237-875-5</td>
<td>Ferrocyanide/C177510</td>
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<tr>
<td>D&amp;C Yellow #10</td>
<td>8004-92-0</td>
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<td>Yellow 10/C147005/8104</td>
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<tr>
<td>Ultramarine Blue</td>
<td>57455-37-5</td>
<td>N/DA</td>
<td>Ultramarines/C177007</td>
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<tr>
<td>Manganese Violet</td>
<td>10101-66-3</td>
<td>233-257-4</td>
<td>Manganese Violet/C17742</td>
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<tr>
<td>FD&amp;C Blue #1</td>
<td>3844-45-9</td>
<td>223-339-8</td>
<td>Blue 1/C142090</td>
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<tr>
<td>D&amp;C Black #2</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>Carbon Black/C177266</td>
<td>3.5 mg/m3</td>
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Date of Issue: 05/22/2012
<table>
<thead>
<tr>
<th>Material</th>
<th>CAS Number</th>
<th>Melting Point</th>
<th>Concentrate</th>
<th>N/E</th>
<th>N/R</th>
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<tbody>
<tr>
<td>Iron Oxide Black</td>
<td>1317-61-9</td>
<td>215-277-5</td>
<td>Iron Oxide CI77499</td>
<td>N/E</td>
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<tr>
<td>Bismuth Oxycarbonate</td>
<td>7787-59-9</td>
<td>232-122-7</td>
<td>Bismuth Oxycarbonate CI77163</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>0-2</td>
</tr>
<tr>
<td>D&amp;C Red #27</td>
<td>13473-26-2</td>
<td>236-747-6</td>
<td>Red 27 CI45410</td>
<td>N/E</td>
<td>N/E</td>
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</tr>
<tr>
<td>Calcium Aluminum Borosilicate</td>
<td>65997-17-3</td>
<td>266-046-0</td>
<td>Same</td>
<td>N/DA</td>
<td>N/DA</td>
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<td>0-2</td>
</tr>
<tr>
<td>Silicon Dioxide</td>
<td>60676-86-0</td>
<td>262-373-8</td>
<td>Silica</td>
<td>N/E</td>
<td>N/E</td>
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<td>0-2</td>
</tr>
<tr>
<td>Carmine</td>
<td>1390-65-4</td>
<td>215-724-4</td>
<td>Carmine CI75470</td>
<td>N/DA</td>
<td>N/DA</td>
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<tr>
<td>Aluminum Powder</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>Aluminum Powder CI77000</td>
<td>15 mg/m³ (TWA) total dust and 5 mg/m³ (TWA) respirable fraction for Aluminum metal as Al</td>
<td>N/DA</td>
<td>0-2</td>
<td></td>
</tr>
</tbody>
</table>

**OSHA PEL for nuisance dust:** 15 mg/m³ (total dust) 5 mg/m³ (respirable dust) 10 mg/m³

**ACGIH PEL for nuisance dust:** 10 mg/m³

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