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21003-XXXX

**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.

|   |  |
|---|--|
| <b>IDENTITY (As Used on Label and List)</b><br>3080 Universal Black India Ink | <b>Note:</b> Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. |
|---|--|

**Section I**

|  |   |
|--|---|
| <b>Manufacturer's Name</b><br>KOH-I-NOOR INC.  | <b>Emergency Telephone Number</b>                         |
| <b>Address (Number, Street, City, State, ZIP Code)</b><br>100 North Street<br>P.O. Box 68<br>Bloomsbury, NJ 08804-9988 | <b>Telephone Number for Information</b><br>(908) 479-4124 |
|  | <b>Date Prepared</b><br>5/6/94                            |

**Section II - Hazardous Ingredients/Identity Information**

| Hazardous Components<br>(Specific Chemical Identity;<br>Common Name(s)) | OSHA PEL            | ACGIH TLV                | Other<br>Limits<br>Recommended | %<br>(optional) |
|---|---------------------|--------------------------|--------------------------------|-----------------|
| Ammonium Hydroxide (1336-21-6)  |                     | 25ppm as NH <sub>3</sub> |                                | 1-2             |
| Phenol (108-95-2)   | 5ppm                | 5ppm                     |                                | 0.45            |
| *Ethylene Glycol (107-2-1)  | 50ppm ceiling conc. | 50ppm ceiling conc.      |                                | 1.6             |
| Water   |                     |                          |                                | 75-85           |
| Carbon Black (1333-86-4)  |                     |                          |                                | 7-9             |
| Shellac (9000-59-3)   |                     |                          |                                | 6-8             |

**Additional Information:** All ingredients are listed in the EPA toxic substances control act inventory (TSCA)  
 Sara Title 313: \*Listed  
 HMIS: HI FO RO

**Section III - Physical/Chemical Characteristics**

|  |            |   |            |
|--|------------|---|------------|
| Boiling Point                                    | 215°F      | Specific Gravity (H <sub>2</sub> O = 1) | 1.055      |
| Vapor Pressure (mm Hg.)                          | Like Water | Melting Point                           | 25-28°F    |
| Vapor Density (AIR = 1)                          | Like Water | Evaporation Rate (Butyl Acetate = 1)    | Like Water |
| Solubility in Water: Miscible                    |            |   |            |
| Appearance and Odor: Black liquid with mild odor |            |   |            |

**Section IV - Fire and Explosion Hazard Data**

|                           |               |                  |                   |
|---------------------------|---------------|------------------|-------------------|
| Flash Point (Method Used) | None ASTM D56 | Flammable Limits | LEL None UEL None |
|---------------------------|---------------|------------------|-------------------|

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**Extinguishing Media** This ink will not burn or support combustion

**Special Fire Fighting Procedures** High temperatures will evaporate the water and the remaining residue will burn. Water is an adequate extinguishing medium.

**Unusual Fire and Explosion Hazards** NONE

**Section V - Reactivity Data**

|           |          |   |                     |      |
|-----------|----------|---|---------------------|------|
| Stability | Unstable |   | Conditions To Avoid | NONE |
|           | Stable   | X |                     |      |

**Incompatibility (Materials to Avoid)** NONE

**Hazardous Decomposition or Byproducts** Ammonia, oxides of carbon and nitrogen

|           |                |   |                     |      |
|-----------|----------------|---|---------------------|------|
| Hazardous | May Occur      |   | Conditions to Avoid | NONE |
|           | Will Not Occur | X |                     |      |

**Polymers** Will Not Occur

**Section VI - Health Hazard Data**

|                    |               |         |              |
|--------------------|---------------|---------|--------------|
| Route(s) of Entry: | Inhalation? X | Skin? X | Ingestion? X |
|--------------------|---------------|---------|--------------|

**Health Hazards (Acute and Chronic)** Over exposure to ammonia, phenol, and ethylene glycol:  
 Acute: Nausea, vomiting, circulatory collapse, depression, greenish or smokey urine, drowsiness, respiratory failure, convulsions.  
 Chronic: Renal and hepatic damage.

|                              |               |                         |                        |
|------------------------------|---------------|-------------------------|------------------------|
| <b>Carcinogenicity:</b> NONE | <b>NTP?</b> ? | <b>IARC Monographs?</b> | <b>OSHA Regulated?</b> |
|------------------------------|---------------|-------------------------|------------------------|

**Signs and Symptoms of Exposure** Over exposure is not expected under normal ink usage; contact with eyes or skin may result in irritation, ingestion may result in gastric disturbances, inhalation may irritate respiratory tract.

**Medical Conditions Generally Aggravated by Exposure** No data found

**Emergency and First Aid Procedures** If inhaled, move to fresh air, flush eyes with water for at least 15 minutes, wash skin with soap and water. If ingested, drink 1 or 2 glasses of water to dilute. If irritation develops, get medical attention immediately.

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

**Steps to Be Taken in Case Material is Released or Spilled** Wipe at once. Dried ink can be soaked with soap solution and rinsed.

**Waste Disposal Method** Bury, incinerate, or run into sewer in accordance with all legal regulations.

**Precautions to Be Taken in Handling and Storing** Avoid temperature extremes

**Other Precautions** NONE

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**Section VIII - Control Measures**

**Respiratory Protection** (Specify Type) **Not Required for normal usage**

|  |  |   |
|--|--|---|
| <b>Ventilation</b>                                 | <b>Local Exhaust</b> Not Required  | <b>Special</b> Not Required                                     |
|  | <b>Mechanical (General)</b><br>Is normally sufficient to maintain exposure below TLV's | <b>Other</b> Not Required                                       |
| <b>Protective Gloves</b>                           | Recommended to avoid staining hands.   | <b>Eye Protection</b> Recommended to avoid splashing into eyes. |
| <b>Other Protective Clothing or Equipment</b> None |  |   |
| <b>Work/Hygienic Practices</b>                     | Wash hands thoroughly before eating, smoking, or using toilet facilities.              |   |