MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME Ethylene Glycol

CHEMICAL NAME 1,2-Ethanediol

FORMULA \( \text{CH}_2\text{OHCH}_2\text{OH} \)

MANUFACTURER EASTMAN KODAK COMPANY

ADDRESS 343 STATE STREET, ROCHESTER, NEW YORK 14650

FOR INFORMATION ON HEALTH HAZARDS CALL (716) 458-1000 Ext. 85566

FOR OTHER INFORMATION CALL (716) 722-2121 INFORMATION EFFECTIVE AS OF 8/10/79

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

<table>
<thead>
<tr>
<th>PRINCIPAL HAZARDOUS COMPONENT(S)</th>
<th>%</th>
<th>TLV (Units)</th>
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SECTION III PHYSICAL DATA

BOILING POINT \( (^\circ F) \) 383\(^\circ F \) (195\(^\circ C \))

SPECIFIC GRAVITY (H. O=1) 1.113 (20/4)

VAPOR PRESSURE (mm Hg) 0.01 @ 20\(^\circ C \)

PERCENT VOLATILE BY VOLUME (%) Negligible

VAPOR DENSITY (AIR=1) 2.14

EVAPORATION RATE \( (\text{L}) \) ----

SOLUBILITY IN WATER Complete

APPEARANCE AND ODOR Clear, slightly viscous liquid; mild odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) 240\(^\circ F \) (116\(^\circ C \)) COC

FLAMMABLE LIMITS

\[ 3.7\% @ \text{Lel} \ 275^\circ F \]

Uel

EXTINGUISHING MEDIA \( \text{CO}_2 \), dry chemical, water

SPECIAL FIRE-FIGHTING PROCEDURES Air mask should be worn

UNUSUAL FIRE AND EXPLOSION HAZARDS None
SECTION V  HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

100 ppm (vapor). 10 mg/m³ (particulates). ACGIH, 1978.

EFFECTS OF OVEREXPOSURE INHALATION: Prolonged exposure to high concentration of the heated vapor or mist can cause narcosis and may result in systemic toxic effects. INGESTION: Can cause severe abdominal pain, back pain, weakness, nausea, vomiting, tremors, convulsions, kidney and brain injury, and death. EYES: May cause irritation. SKIN: Prolonged contact may result in toxic amounts penetrating the intact skin.

EMERGENCY AND FIRST-AID PROCEDURES

INHALATION: Remove to fresh air. Get medical attention. INGESTION: Induce vomiting immediately by giving two glasses of water and touching back of throat with finger or blunt object. Call a physician. Never give anything by mouth to an unconscious person. EYES AND SKIN: Immediately flush areas of contact with plenty of water and get medical attention.

SECTION VI  REACTIVITY DATA

<table>
<thead>
<tr>
<th>STABILITY</th>
<th>UNSTABLE</th>
<th>CONDITIONS TO AVOID</th>
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<tbody>
<tr>
<td></td>
<td>STABLE</td>
<td>X</td>
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</table>

INCOMPATIBILITY (Materials to avoid)

Oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide

HAZARDOUS POLYMERIZATION

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Will Not Occur</th>
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SECTION VII  SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN

IN CASE MATERIAL IS

USED OR SPILLED

Wearing suitable protective clothing, absorb spilled material on vermiculite. Place in fiber carton. Incinerate. Wash spill area well with soap and water.

WASTE DISPOSAL METHOD

Wearing suitable protective clothing, incinerate. State and local laws take precedence.

SECTION VIII  SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

(Specify Type) An approved self-contained breathing apparatus or air-line respirator

VENTILATION

LOCAL EXHAUST If heated or for mist SPECIAL No MECHANICAL (general) Yes OTHER No

PROTECTIVE GLOVES

Yes

EYE PROTECTION

Yes

OTHER PROTECTIVE EQUIPMENT

As necessary to prevent skin contact

SECTION IX  SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

None

OTHER PRECAUTIONS

None

The information herein is believed to be correct as of the date hereof, but is provided without warranty.