Material Safety Data Sheet

SDS #: D-4007
Manometer Fluid

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Manometer Fluid

Part No. 058E00230, 058E00240

Color Yellow
Pure substance/preparation Preparation

Identified uses Cleaning agent

Supplier Address
Xerox Corporation
Rochester, NY 14644

Xerox Canada LTD.
5650 Yonge Street
North York, Ontario M2M4G7

Emergency telephone
Safety Information (800)828-6571
Health Emergency (585)422-2177
Chemical Emergency only (Chemtrec) (800)424-9300
or (703)527-3887 (collect outside the US or Canada)

2. HAZARDS IDENTIFICATION

Emergency Overview
The product, in the form utilized, is not considered to be hazardous to health.

<table>
<thead>
<tr>
<th>Color</th>
<th>Appearance</th>
<th>Physical state</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Liquid contained in molded tubing</td>
<td>Liquid</td>
<td>Characteristic</td>
</tr>
</tbody>
</table>

Potential Health Effects
Principle Routes of Exposure Ingestion
Acute toxicity
Eyes Irritating to eyes
Skin May produce mild irritation on prolonged contact with skin.
Inhalation Avoid breathing vapors or mists, Irritating to respiratory system
Ingestion May cause central nervous system depression
Chronic effects
Main symptoms May cause central nervous system depression, respiratory irritation
Aggravated Medical Conditions None under normal use conditions
Environmental hazard See Section 12 for additional Ecological Information

Risk Phrases None required
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>45-50</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>45-50</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**General advice**
When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.

**Eye contact**
Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact**
Wash skin with soap and water.

**Inhalation**
Move to fresh air.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Induce vomiting, but only if victim is fully conscious.

**Notes to physician**
Treat symptomatically.

**Protection of first-aiders**
No special protective equipment required.

5. FIRE-FIGHTING MEASURES

**Flammable properties**
May burn if exposed to extreme heat or flame.

**Flash point**
111 °C / 232 °F

**Suitable extinguishing media**
Use water fog, alcohol foam, CO₂ or dry chemical.

**Unsuitable extinguishing media**
No information available.

**Hazardous combustion products**
Carbon oxides.

**Explosion Data**
- Sensitivity to Mechanical Impact: Not sensitive.
- Sensitivity to Static Discharge: Not sensitive.

**Specific hazards arising from the chemical**
No information available.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA 704**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
For personal protection see section 8. Ensure adequate ventilation.

**Environmental Precautions**
Refer to protective measures listed in Sections 7 and 8.
Methods for containment: No information available.
Methods for cleaning up: Keep in suitable and closed containers for disposal.
Other Information: See Section 12 for additional information.

7. HANDLING AND STORAGE

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice.
Technical measures/Storage conditions: Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.
Hygiene measures: None under normal use conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines: (based on ethylene glycol)
Xerox Exposure Limit: 100 mg/m³ (ethylene glycol)

Component information:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>Ceiling: 100 mg/m³</td>
<td></td>
</tr>
<tr>
<td>107-21-1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Information: No hazardous exposure expected under normal use conditions.

Biological standards: No information available.

Occupational Exposure Controls

Engineering measures: None known.

Personal Protective Equipment

Consumer use: These recommendations apply to the product as supplied
Respiratory protection: No special protective equipment required.
Eye/face protection: No special protective equipment required.
Skin and body protection: No special protective equipment required.
Hand protection: No special protective equipment required.

9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Stability
Stable under normal conditions

Incompatible products
Strong acids, Strong oxidizing agents

Conditions to Avoid
Excessive heat

Hazardous Decomposition Products
Thermal decomposition can lead to release of toxic/corrosive gases and vapors

Hazardous polymerization
Hazardous polymerization does not occur

Hazardous reactions
None under normal processing

11. TOXICOLOGICAL INFORMATION

Note: (based on ethylene glycol)

Acute toxicity

Product information

Irritation
Mild skin irritant, mild eye irritant

LD50 Oral:
Practically non-toxic

LD50 Dermal:
Practically non-toxic

Component information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>4000 mg/kg (Rat)</td>
<td>9530 µL/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>90 mL/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chronic toxicity

Carcinogenicity
Contains no ingredient listed as a carcinogen

Sensitization
Not a sensitizer
(Manometer Fluid)

10. USE AND HANDLING

11. TOXICITY INFORMATION

Mutagenic effects  Not mutagenic in AMES Test.
Target organ effects  Kidney
Aspiration Hazard  Not applicable
Other adverse effects  Teratogenic effects

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods  This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261)
Dispose of in accordance with local regulations

Contaminated packaging  Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Note  This material is not subject to regulation as a hazardous material for shipping.

DOT  Not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA  Complies

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard  No
Chronic Health Hazard  No
Fire Hazard  No
Sudden Release of Pressure Hazard  No
Reactive Hazard  No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act
The Clean Air Act may apply to the substances contained in this product as follows:
CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td></td>
<td>5000 lb</td>
</tr>
</tbody>
</table>

TSCA
TSCA 12b does not apply to this product.

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
WHMIS Hazard Class
D2B Toxic materials

<table>
<thead>
<tr>
<th>Component</th>
<th>NPRI</th>
</tr>
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<tr>
<td>Ethylene glycol</td>
<td></td>
</tr>
<tr>
<td>107-21-1 (45-50)</td>
<td>X</td>
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</table>

16. OTHER INFORMATION

Issuing Date 2008-01-08
Revision Date 2011-05-02
Revision Note No information available

Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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