1. Product and Company Identification

Material name: DL/XLM & CR Stamp Pad Ink
Revision date: 04-24-2012
Version #: 01
CAS #: Mixture
Product use: Marking.
Manufacturer/Supplier: Diagraph MSP
5307 Meadowland Parkway Marion IL 62959
msds@diagraphmsp.com
Contact Person: Customer Service
800-521-3047

Emergency:
Emergency telephone 800-535-5053 (US only)
+1-352-323-3500 international

2. Hazards Identification

Physical state: Liquid.
Appearance: Colored liquid.
Emergency overview: May be harmful if swallowed. May cause eye and skin irritation.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects:
- Routes of exposure:
  - Ingestion. Skin contact. Eye contact.
  - Eyes: May cause eye irritation.
  - Skin: May cause skin irritation.
  - Inhalation: Under normal conditions of intended use, this material does not pose a risk to health.
  - Ingestion: May be harmful if swallowed.

Chronic effects: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms: Exposed individuals may experience eye tearing, redness, and discomfort. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>40 - 100</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures:
- **Eye contact**: Flush eyes immediately with large amounts of water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
- **Skin contact**: Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
- **Inhalation**: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
- **Ingestion**: Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Only induce vomiting at the instruction of medical personnel. Get medical attention.
General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties
No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions
Prevent from entering into soil, ditches, sanitary sewers, waterways and/or groundwater.

Methods for containment
Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up
This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling
Provide adequate general and local exhaust ventilation. Avoid forming spray/aerosol mists. Avoid inhalation of mists or aerosols. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. Use Personal Protective Equipment recommended in section 8 of the MSDS. Observe good industrial hygiene practices.

Storage
Store in a closed container away from incompatible materials. Store between 35°F (2°C) and 120°F (49°C).

8. Exposure Controls / Personal Protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Exposure guidelines
No exposure limits noted for ingredient(s).

Engineering controls
Provide adequate general and local exhaust ventilation.

Personal protective equipment

Eye / face protection
Wear approved safety goggles.

Skin protection
Wear suitable protective clothing and gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Respiratory protection
Minimise inhalation of aerosols/mists: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance
Colored liquid.

Color
Various.
Odor Characteristic.
Odor threshold Not available.
Physical state Liquid.
Form Liquid.
\( \text{pH} \) 7 (20°C/68°F)
Melting point Not available.
Freezing point Not available.
Boiling point 473 °F (245 °C)
Flash point 294.8 °F (146 °C)
Evaporation rate Not available.
Flammability limits in air, upper, % by volume 22 % v/v
Flammability limits in air, lower, % by volume 0.7 % v/v
Vapor pressure 0 hPa (20°C/68°F)
Vapor density Not available.
Specific gravity Not available.
Solubility (water) Completely miscible with water.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not applicable.
Decomposition temperature Not available.
Density 1.1334 g/cm³ (20°C/68°F)

10. Chemical Stability & Reactivity Information
Chemical stability The product is stable and non reactive under normal conditions of use, storage and transport.
Conditions to avoid Contact with incompatible materials.
Hazardous decomposition products In case of fire: Carbon oxides.
Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

<table>
<thead>
<tr>
<th>Toxicological data Components</th>
<th>Test Results</th>
</tr>
</thead>
</table>
| Diethylene glycol (111-46-6) | Acute Dermal LD50 Rabbit: 11890 mg/kg  
|                              | Acute Oral LD50 Rat: 12565 mg/kg |

Toxicological information
Acute effects May be harmful if swallowed.
Local effects May cause skin and eye irritation.
Sensitization No data available.
Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Carcinogenicity Not classified.
Mutagenicity No data available.
Reproductive effects No data available.
12. Ecological Information

Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol (111-46-6)</td>
<td>LC50 Western mosquitofish (Gambusia affinis): &gt; 32000 mg/l 96 hours</td>
</tr>
</tbody>
</table>

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability

No data available.

Bioaccumulation / Accumulation

No data available.

Partition coefficient (n-octanol/water)

Not available.

Mobility in environmental media

This product is miscible in water.

13. Disposal Considerations

Waste codes

Not regulated.

Disposal instructions

Dispose in accordance with all applicable regulations.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CRF 355, Appendix A)

No

Section 311/312 (40 CFR 370)

Yes
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)

Canadian regulations
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status
Controlled

WHMIS classification
D2B - Other Toxic Effects-TOXIC

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
Diethylene glycol (CAS 111-46-6) Listed.

Mexico regulations
This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Disclaimer
This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Issue date
04-24-2012