1. PRODUCT IDENTIFICATION

PRODUCT Name: #100 Solvent
PRODUCT COLOR: Clear
RECOMMENDED USE: Coding and Marking

Manufacturer/Supplier:
Diagraph MSP
5307 Meadowland Parkway
Marion IL 62959
Phone: 1-800-521-3047
Email: msds@diagraphmsp.com
Contact: Customer Service

Emergency Telephone Number: INFOTRAC: 800-535-5053 (US only)
TRANSPORTATION: +1-352-323-3500 international

2. HAZARDS IDENTIFICATION

Emergency Overview:

GHS Classification:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>3</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>3</td>
</tr>
</tbody>
</table>

GHS label elements, including precautionary statements

Pictogram

Signal Word  **Warning**

Hazard Statements

- H226  Flammable liquid and vapor
- H319  Causes serious eye irritation
- H336  May cause drowsiness or dizziness
Precautionary Statements

P210   Keep away from heat/sparks/open flames/hot surfaces
P243     Take precautionary measures against static discharge
P261     Avoid breathing dust/fume/gas/mist/vapors/spray
P264     Wash skin thoroughly after handling
P271     Use only outdoors or in a well-ventilated area
P280     Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
       Rinse skin with water/shower
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position
       comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact
       lenses, if present and easy to do. Continue rinsing
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P337+P313 If eye irritation persists: Get medical advice/attention
P370+P378 In case of fire: Use Water spray, CO2, dry chemical, or alcohol resistant foam to
       extinguish
P403+233 Store in a well-ventilated place. Keep container tightly closed
P501 Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>107-98-2</td>
<td>60-70</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>30-40</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First Aid Measures

Ingestion: If swallowed, do NOT induce vomiting. Never give anything by mouth
to an unconscious person. Rinse mouth with water. Consult a
physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and
consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give
artificial respiration. Consult a physician.

Most important symptoms and effects

Symptoms Causes eye irritation. May be harmful if inhaled. May cause respiratory
tract irritation. Vapors may cause drowsiness and dizziness. May be
harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically
5. FIREFIGHTING MEASURES

Suitable extinguishing media:
Water fog, Multipurpose foam, Dry chemical, CO₂

Unsuitable extinguishing media:
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards in case of fire:
Fight as volatile liquid fire
Flashback fires may occur
Vapors are dense and may travel to remote ignition source

Hazardous combustion products:
Carbon oxides, organic combustion products which may be toxic and/or irritating

Protective equipment and precautions for fire fighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Wear chemical goggles, gloves, boots and protective clothing. Wear respirator if necessary. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition and heat.

Environmental precaution:
Prevent additional discharge of material. Prevent material from entering sewers or water courses.

Methods and materials for containment and cleaning up:
Absorb small spills with sand, filter-aid, vermiculite or other inert absorbent material, then place in a chemical waste container. For large spills, contain with sand or earth dikes. Dispose of waste in accordance with applicable government regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:
Avoid contact with eyes. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink of smoke when using this product. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Unscrew all caps slowly. Do not unscrew entirely until all pressure has been completely released. Keep away from heat/sparks/open flames/hot surfaces. Emptied containers may retain residues. Precautions apply to emptied containers.

Conditions for safe storage, including incompatibilities:
Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep storage temperature between 4-32 °C (40-90 °F). Incompatible with strong oxidizing agents, strong acids, strong bases, alkali metals and halogens.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines:
### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks-Methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Moderate</td>
<td></td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>27.8 °C / 82 °F</td>
<td>Tag Closed Cup</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt;1</td>
<td>butyl acetate = 1</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability limits:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor density:</td>
<td>&gt;1</td>
<td>air = 1</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>0.9</td>
<td>water = 1</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%):</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>VOC Content:</td>
<td>7.5 lbs/gal</td>
<td></td>
</tr>
</tbody>
</table>
Reactivity:
Not reactive under normal conditions.

Chemical Stability:
Stable under recommended storage conditions.

Possibility of hazardous reactions:
None under normal processing.

Conditions to avoid:
Keep out of reach of children. Keep away from heat, sparks and open flame. Keep away from contact with incompatible materials.

Incompatible materials:
Strong oxidizing agents

Hazardous decomposition products:
Carbon oxides, thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact: Causes eye irritation
Skin contact: May cause skin irritation
Inhalation: May cause respiratory irritation. May cause drowsiness or dizziness.
Ingestion: May be harmful if swallowed

Component Information:

<table>
<thead>
<tr>
<th>Chemical Name and CAS#</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol 107-98-2</td>
<td>≥ 4,016 mg/kg (Rat)</td>
<td>&gt;2,000 mg/kg (Rabbit)</td>
<td>= 25.8 mg/l (Rat) 5h</td>
</tr>
<tr>
<td>2-Propanol 67-63-0</td>
<td>= 5,045 mg/kg (Rat)</td>
<td>= 12,800 mg/kg (Rabbit)</td>
<td>= 16,000 mg/m³ (Rat) 8h</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects:

Symptoms
Please see section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Carcinogenicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol 67-63-0</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend
ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B – Limited evidence of carcinogenicity
Group 3 IARC components are "not classifiable as human carcinogens"
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity:
Not determined
12. ECOLOGICAL INFORMATION

Ecotoxicity:

Component Information

<table>
<thead>
<tr>
<th>Chemical Name and CAS#</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol 107-98-2</td>
<td></td>
<td>LC50 - Pimephales promelas – 20,800 mg/L – 96h</td>
<td>EC50 - Daphnia magna – 23,300 mg/L – 48h</td>
<td></td>
</tr>
<tr>
<td>2-Propanol 67-63-0</td>
<td>EC50 - Desmodesmus subspicatus - 2000 mg/L – 72h</td>
<td>LC50 - Pimephales promelas – 9,640 mg/L – 96h</td>
<td>EC50 - Daphnia magna – 5,102 mg/L – 96h</td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability: Not determined

Bioaccumulation: Not determined

Mobility: Not determined

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Dispose of as unused product in accordance with applicable regional, national and local laws and regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT

| UN number | 1210 |
| Proper shipping name | PRINTING INK RELATED MATERIAL |
| Hazard class | 3 |
| Packing group | III |
| ERG# | 129 |

IATA

| UN number | 1210 |
| Proper shipping name | PRINTING INK RELATED MATERIAL |
| Hazard class | 3 |
| Packing group | III |

IMDG

| UN number | 1210 |

Page 6 of 8
Proper shipping name: PRINTING INK RELATED MATERIAL
Hazard class: 3
Packing group: III
Marine pollutant: No

SECTION 15 – REGULATORY INFORMATION

TSCA STATUS: All Components listed

OTHER REGULATORY:

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>SARA 302</th>
<th>SARA 311/312</th>
<th>SARA 313</th>
<th>RECRA</th>
<th>CERCLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>No</td>
<td>F, A, C</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>No</td>
<td>F, A, C</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA 311/312 Codes:  
R = Reactive Hazard  
P = Pressure Hazard  
F = Fire Hazard  
A = Immediate/Acute  
C = Delayed/Chronic  

California Prop. 65 Components: Chemicals known to the state of California to cause birth defects or other reproductive harm:

This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16 – OTHER INFORMATION

HMIS:

Health: 2  
Chronic Health Hazard: *  
Flammability: 3  
Reactivity: 0  

Revision Date: 15-Jun-2015  
Replaces: 08-May-2015  
Revision Note: Update to Sections 2 and 4  

Prepared by: Don Wright

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Section II. All of the information given, including ingredient identification, CAS Number, and quantity, is proprietary information, which has been provided in order to meet the objective of the “Hazard Communication” standard. Data provided here are typical and not intended for use as product specifications. This formulation information is confidential, and only to be disclosed in accordance with Federal and State safety and health regulations. Permission to disclose any ingredient information for any other purpose is neither given nor implied.