SAFETY DATA SHEET

Issuing Date: 24-Nov-2015

Version 1

Majestic 650 Developer Concentrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Majestic 650 Developer Concentrate
Product code: 28006-40
Product Use: Developer for Graphic Arts Industry.

Supplier Address:
Recognition Systems, Inc.
30 Harbor Park Drive
Port Washington, NY 11050

Company Phone Number: 516-625-5000
Emergency Telephone: Transport-CHEMTREC Inside NA: 800-424-9300
Transport CHEMTREC Outside NA: 703-527-3887

2. HAZARDS IDENTIFICATION

Classification:

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

GHS Label elements, including precautionary statements

Danger

Hazard Statements
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
Suspected of causing genetic defects
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Wear eye/face protection
Wear protective gloves
Do not breathe dust/fume/gas/mist/vapors/spray

Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention

Storage
Store locked up

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazard not otherwise classified (HNOC)
Not classified

Other hazards
May be harmful if swallowed
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>123-31-9</td>
<td>3.7%</td>
</tr>
<tr>
<td>POTASSIUM CARBONATE</td>
<td>584-08-7</td>
<td>3.7%</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td>111-46-6</td>
<td>1.5%</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>0.5-1.5%</td>
</tr>
<tr>
<td>DTPA PENTASODIUM SALT</td>
<td>140-01-2</td>
<td>0.5-1.5%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes
General advice  If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact  In case of contact with substance, immediately flush eyes with running water for at least 30 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician immediately.

Skin contact  IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation  Move to fresh air. If symptoms persist, call a physician.

Ingestion  Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of First-aiders  Use personal protective equipment.

Most important symptoms/effects, acute and delayed
May cause redness, itching, and pain. Burning feeling and temporary redness. May cause allergic skin reaction.

Indication of immediate medical attention and special treatment needed, if necessary
May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None known.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

Hazardous Combustion Products

Expllosion Data
Sensitivity to Mechanical Impact  none
Sensitivity to Static Discharge  none

Protective Equipment and Precautions for Firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.
Prevent product from entering drains.

**Methods and materials for containment and cleaning up**

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Use personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

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### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exposure during pregnancy.

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>AiHA - Workplace Environmental Exposure Levels (WEELs) - TWAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>TWA: 1 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated)</td>
<td>IDLH: 50 mg/m³ Ceiling: 2 mg/m³ 15 min</td>
<td>10 mg/m³ TWA</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³</td>
<td>IDLH: 10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Exposure controls**

**Engineering Measures**
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**
Tightly fitting safety goggles, Face-shield.

**Skin and body protection**
Wear protective gloves/clothing.

**Respiratory protection**
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**
When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>pale yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Odor</td>
</tr>
<tr>
<td>Physical State</td>
<td>Physical State @20°C Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>~ 10.6</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.24</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>212 °F / &gt; 100 °C</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Stable under recommended storage conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Excessive heat. Freezing.

Incompatible Materials
Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products
None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity
Inhalation
Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eyes
Corrosive to the eyes and may cause severe damage including blindness.

Skin
Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion
May be harmful if swallowed.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50 (mg/kg (rat))</th>
<th>Dermal LD50 (mg/kg (rabbit))</th>
<th>LC50 (lethal concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>~298</td>
<td>~74800</td>
<td></td>
</tr>
<tr>
<td>POTASSIUM CARBONATE</td>
<td>~1870</td>
<td>~11880</td>
<td></td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td>~12565</td>
<td>~11880</td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>-</td>
<td>1350 (mg/kg (rabbit))</td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects
No information available.

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

Irritation
Severe eye irritant. Irritating to skin.

Corrosivity
Corrosive to eyes.

Sensitization
May cause sensitization by skin contact.

Mutagenic Effects
Contains a known or suspected mutagen.

Reproductive Toxicity
Contains a known or suspected reproductive toxin.

Carcinogenicity
Contains a known or suspected carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>A3</td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A4 - Not Classifiable as a Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3: Not classifiable as to its carcinogenicity to humans
Group 1: Carcinogenic to humans
Group 2A: Probably carcinogenic to humans
Group 2B: Possibly carcinogenic to humans

OSHA: (Occupational Safety & Health Administration)
X - Present

STOT - single exposure
No information available.

STOT - repeated exposure
Diethylene glycol: Can induce kidney, liver, central nervous system and gastrointestinal effects if swallowed.

Target Organ Effects
Eyes, Skin, Blood, Liver, Kidney, Reproductive system, Central nervous system (CNS), Respiratory system.

Aspiration hazard
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.
ATEmix (oral) 3171 mg/kg
ATEmix (dermal) 12768 mg/kg

ATE: Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity
Vary toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae toxicity</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td></td>
<td>Pimephales promelas: 0.1 - 0.18 mg/L at 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pimephales promelas: 0.044 mg/L at 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td></td>
<td>Pimephales promelas: 75200 mg/L at 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DTPA PENTASODIUM</td>
<td></td>
<td>Pimephales promelas: 300 mg/L at 96 h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SALT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.
Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Octanol Water Partition Coefficient (log pow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>0.5</td>
</tr>
<tr>
<td>DIETHYL EYLENE GLYCOL</td>
<td>-1.98</td>
</tr>
<tr>
<td>DTPA PENTASODIUM SALT</td>
<td>-3.05</td>
</tr>
</tbody>
</table>

Mobility
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with local regulations.

Contaminated packaging
Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT                      Not regulated
TDG                      Not regulated
MEX                      Not regulated
ICAO                     Not regulated
IATA                     Not regulated
IMDG                     Not regulated
ADR/RID                  Not regulated
ADN                      Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>PICCS</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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KECL  Yes
AICS  Yes

*Yes - All component(s) of this product are included or are exempt from listing on the inventory.

*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCs - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

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>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>123-31-9</td>
<td>1.0</td>
<td>3-7%</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: no
Sudden Release of Pressure Hazard: no
Reactive Hazard: no

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1000 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

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>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROQUINONE</td>
<td>100</td>
<td>100 lb</td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1000</td>
<td>100 lb</td>
<td>RQ 1000 lb final RQ</td>
</tr>
</tbody>
</table>

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
International Regulations

Canada - NDSL
This product does not contain any NDSL chemicals.

Mexico - Grade
Slight risk, Grade 1

Mexico - Carcinogen Status and Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td></td>
<td>Mexico: Ceiling 2 mg/m³</td>
</tr>
</tbody>
</table>

Other Regulations
No information available

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical hazards -</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>Personal protection C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Revision Date 24-Nov-2015

Revision Note
No information available

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

end