DOTWORKS RECOGNITION SYSTEMS
RAPID ACCESS DEVELOPER POWDER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Recognition Systems, Inc.
30 Harbor Park Drive, Port Washington, NY 11050
Product Name: RAPID ACCESS DEVELOPER POWDER
Product Number: 730734P
Product Use: Photographic developer.
Customer Information Phone Number: 1-516-625-5000
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300
Date Reviewed: 2/25/2015
Rev. 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302
Causes severe skin burns and eye damage (Skin Corr. 1B) H314
Serious eye damage (Category 1), H314
Skin sensitization (Category 2), H317
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 2), H351
Harmful to aquatic life (Category 3), H402
Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: DANGER

Hazard statement(s)

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H317 May cause allergic skin reaction
H318 Causes severe eye damage
H335 May cause respiratory irritation
H341 Suspected of causing genetic defects
H351 Suspected of causing cancer
H402 Harmful to aquatic life.
SAFETY DATA SHEET

H410 Very toxic to aquatic life

Precautionary statement(s)

P201 Obtain special instructions before use
P260 Do not breathe dust or mist
P264 Wash skin thoroughly after handling
P270 Do not eat, drink, or smoke when using this product
P273 Avoid release into the environment
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician; Do NOT induce vomiting
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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P331 Dispose of contents to an approved waste disposal plant.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse
P391 Collect spillage

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>OHSA PEL</th>
<th>ACGIH TLV</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM SULFITE</td>
<td>7757-83-7</td>
<td>N.E.</td>
<td>5mg/m³</td>
<td>50-60</td>
</tr>
<tr>
<td>HYDROQUINONE</td>
<td>123-31-9</td>
<td>2mg/m³</td>
<td>2mg/m³</td>
<td>10-15</td>
</tr>
<tr>
<td>LITHIUM HYDROXIDE</td>
<td>1310-66-3</td>
<td>N.E.</td>
<td>N.E.</td>
<td>5-10</td>
</tr>
<tr>
<td>SODIUM CARBONATE</td>
<td>497-19-8</td>
<td>N.E.</td>
<td>N.E.</td>
<td>5-10</td>
</tr>
<tr>
<td>DISSOLVINE EDTA</td>
<td>60-00-4</td>
<td>N.E.</td>
<td>N.E.</td>
<td>1-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Inhalation: If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Do not induce vomiting. Only induce vomiting at the instruction of medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

Aggravated Medical Conditions: Individuals who are under the care of a physician or have chronic ailments, should consult a physician before using this product. May cause severe allergic
reaction in some asthmatics and sulfite sensitive individuals.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media
Use agent appropriate for surrounding fire.

5.2 Special Hazards arising from substance or mixture
Fire or excessive heat may cause production of hazardous decomposition products. Combustion Products: Carbon dioxide, carbon monoxide, and oxides of sulfur and lithium.

5.3 Advise for firefighters
Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes. Fire or excessive heat may produce hazardous decomposition products. Use water to keep containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Pick up and arrange disposal without creating dust. Sweep up and shovel. If in working solution dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill.

6.2 Environmental precautions
Prevent liquid from entering sewers, waterways or low areas. Discharge to sewer requires approval of permitting authority and may require pre-treatment.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

7.2 Conditions for safe storage, including any incompatibles
Do not store with incompatible materials. Do not store with strong acids. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. Dispose of in a licensed facility.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters
See Section 3.

8.2 Exposure controls
Use good personal hygiene when handling this product. Avoid contact with skin and eyes. Wash hands after use, before smoking, or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Personal protective equipment

**Eye Protection:** Safety glasses with side shields (or goggles)/faceshield.

**Respiratory Protection:** Use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

**Skin protection:** Nitrile rubber, Latex, or neoprene waterproof gloves are recommended.

**Body protection:** Rubber or plastic apron.

**Respiratory protection:** Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Crystalline white powder
Solubility In Water: Complete
Boiling Point: Not applicable
Vapor Pressure: Not applicable
Specific Gravity: 1.073
Melting Point: Not applicable
Freezing Point: Not applicable
Ph: Not applicable
Vapor Density: Not applicable
Evaporation Rate: Not applicable
Percent Volatile: Not applicable
Molecular Weight: Not applicable
Pounds Per Gallon: 8.94
V.O.C. is 0

10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable

10.2 Chemical stability
Conditions To Avoid: None

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible Materials
Strong acids, oxidizing agents, aluminum, and Zinc.

10.6 Decomposition Products
May produce oxides of sulfur, carbon, and lithium.
SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

**Component information**

*Lithium Hydroxide Monohydrate 1310-66-3*

**Acute toxicity:**
LD50 Oral (rat) 368 mg/kg
LC50 Inhalation (rat) > 6.15 mg/l - 4h (OECD Test Guideline 403)
Dermal: no data available

**Skin corrosion/irritation**
Skin - in vitro assay
Result: Corrosive (In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX)

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Not mutagenic in Ames Test. mouse lymphocyte Result: negative

**Carcinogenicity IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** Lithium and its compounds are possible teratogens by analogy to lithium carbonate which has equivocal human teratogenic data and positive animal teratogenic data. no data available

**Specific target organ toxicity** - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available

*Hydroquinone 123-31-9*

**Acute toxicity:**
Oral LD50 (rat) 367.3 mg/kg (OECD Test Guidance 401)
Dermal LD50 (rabbit) >2,000 mg/kg (OECD Test Guidance 402)
Inhalation: no data

**Skin irritation:** no data

**Eye irritation:** no data

**Respiratory or Skin Sensitization** (in vivo assay – mouse (OECD Test Guidance 429)
May cause sensitization by skin contact.
May cause allergic skin reaction.

**Carcinogenicity/mutagenicity:** none

*Sodium Carbonate 497-19-8*

**Acute toxicity:**
LD50 Oral – rat – 2800 mg/kg
**Skin irritation:** LD50 Dermal – rabbit > 2000 mg/kg
SAFETY DATA SHEET

Eye irritation:
No data available

Respiratory or Skin Sensitization
LD50 Inhalation – guinea pig – 800 mg.m³
Carcinogenicity/mutagenicity: none

Sodium Sulfite 7757-83-7

Acute toxicity:
Oral LD-50 (rat)  3,560 mg/kg
Inhalation LD-50 (rat)  >5,500 mg/m³ - 4 h
Dermal: no data

Skin irritation:
Skin – rabbit
Result: No skin irritation

Eye irritation:
Skin – rabbit
Result: No skin irritation

Respiratory or Skin Sensitization
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Carcinogenicity/mutagenicity: none

12. ECOLOGICAL INFORMATION

Component information

Lithium Hydroxide Monohydrate 1310-66-3

12.1 Toxicity

Toxicity to fish
LC50 - Danio rerio (zebra fish) - 109 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates
LC50 – Daphnia magna (Water flea) – ca. 33.5 mg/l - 48 h
(OECD Test Guideline 202)

Toxicity to algae
EC50 – Pseudokirchneriella subcapitata (green algae)
- 41.62 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria
EC50 - Sludge Treatment - ca. 316.8 mg/l - 3 h
(OECD Test Guideline 209)  Respiration inhibition

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
Does not bioaccumulate

12.4 Mobility in soil
No data available

Date: 6/25/15  Dotworks Powder Developer 6 / 9
12.5 Result of PBT and vPvB assessment
   Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects
   Other adverse effects An environmental hazard cannot be excluded in the event of
   unprofessional handling or disposal. Harmful to aquatic life

*Sodium Carbonate 497-19-8*

   12.1 Toxicity
   LC50 /96 hours: 300 mg/l (bluegill, sunfish)
   EC50/48 hours: 200-227 mg/L (Ceriodaphnia)

   12.2 Persistence and degradability
   This product is completely biodegradable.

   12.3 Bioaccumulative potential
   No data available

   12.4 Mobility in soil
   No data available

   12.5 Result of PBT and vPvB assessment
   Assessment not available as chemical assessment not required/not conducted

*Sodium Sulfite 7757-83-7*

   12.1 Toxicity
   Toxicity to fish LC50- Gambusia affinis (Mosquito fish) -660 mg/l – 96h

   12.2 Persistence and degradability
   No data available

   12.3 Bioaccumulative potential
   No data available

   12.4 Mobility in soil
   No data available

   12.5 Result of PBT and vPvB assessment
   Assessment not available as chemical assessment not required/not conducted

   12.5 Other adverse effects
   None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

   **Product**
   Preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.
14. TRANSPORT INFORMATION

DOT (US)

Ship Name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Lithium Hydroxide, Monohydrate)
Hazard Class: 8
UN No.: 3262
Packing Group: II
Guide No: 154

Limited Quantity Exception may apply to this product, for “inner packagings not over 1.0L (0.3 gal) for liquids and 1.0 kg (2.2 lb.) for solids”. 173.154 (b) (1). Each package must conform to the packaging requirements of Subpart B of Part 173 and may not exceed 30 kg (66 lb.) gross weight. For further information consult the 49 CFR.

DOT Class: CONSUMER COMMODITY, ORM-D
Hazard Class: NOT APPLICABLE
UN No.: NOT APPLICABLE
Packing Group: NOT APPLICABLE
Guide No: NOT APPLICABLE
Ship Name: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

<table>
<thead>
<tr>
<th>Cas#</th>
<th>Revision Date</th>
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<tbody>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
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SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

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SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components
This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA
All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SCAQMD Rule 443.1
Photochemically Reactive: No
Maximum Grams of VOC per Liter: 0 g/L
Vapor Pressure: 18 mm Hg@ 20 Degrees C
16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3.

Acute toxicity, Oral (Category 4), H302
Causes severe skin burns and eye damage (Skin Corr. 1B) H314
Serious eye damage (Category 1), H314
Skin sensitization (Category 2), H317
Harmful to aquatic life (Category 3), H402
Acute aquatic toxicity (Category 1), H410

HMIS RATING

Health: 2
Flammability: 0
Reactivity: 0

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.