

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.
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
P501 Dispose of contents to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

SAFETY DATA SHEET

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.

SAFETY DATA SHEET

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 LD-50 (rat) 367.3 mg/kg (OECD Test Guidance 401)
Dermal LD-50 (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

SAFETY DATA SHEET

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.

SAFETY DATA SHEET

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:

| | Cas# | Revision Date |
|--------------|----------|---------------|
| Hydroquinone | 123-31-9 | 2007-07-01 |

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

| | Cas# | Revision Date |
|--------------|----------|---------------|
| Hydroquinone | 123-31-9 | 2007-07-01 |

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

SAFETY DATA SHEET

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.