MSDS - Material Safety Data Sheet

Product Name: ALTA - ZONAL Pro FACTOR One Developer

MSDS No.: A-212

I. Basic Information:

Manufacturer: ALTA Photographic Inc.
Address: 1421 International Drive
City, ST Zip: Bartlesville, OK 74006
Emergency Contact: CHEMTREC
Emergency Phone: 800-424-9300

Last Update: 09/26/2000
Chemical State: X Liquid [ ] Gas [ ] Solid
Chemical Type: [ ] Pure X Mixture

II. Ingredients:

CAS No. Chemical Name % Range EHS NTP IARC SUB Z 313 PEL TLV Limits
123319 Hydroquinone <7.00 X 2mg/m3 2mg/m3
1310563 Potassium hydroxide
7681574 Sodium metabisulfite

III. Hazardous Identification:

Hazard Category:
X Acute [ ] Chronic [ ] Fire [ ] Pressure [ ] Reactive

Hazardous Identification Information:
CAUTION - Irritant, moderate skin and eye.
MAY CAUSE SKIN OR EYE IRRITATION.

Avoid contact with skin and clothing. Avoid contact with eyes.
Wash thoroughly after handling.

IV. First Aid Measures:

Route(s) of Entry:
Possible skin or eye.

Health Hazards (Acute and Chronic):
ACUTE - May cause irritation to eyes or skin. CHRONIC - None.

Signs and Symptoms:
Eye or skin irritation or redness.

Medical Conditions Generally Aggravated by Exposure:
None Known
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Emergency and First Aid Procedures:
- In case of eye contact, immediately flush with plenty of water for at least 15 mins.
- In case of skin contact, immediately flush with water for 15 mins. Remove contaminated clothing.
- In case of inhalation, remove to fresh air.

Other Health Warnings:
- Wash thoroughly after handling.

V. Fire Fighting Measures:

Flash Point: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

Fire Extinguishing Media: Water spray, dry chemical, carbon dioxide (C02).

Special Fire Fighting Procedures:
- Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

Unusual Fire and Explosion:
- NE

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:
- Absorb spill with inert material (e.g. dry sand or absorbant) then place in suitable container.
- Flush residual spill with water. For large spills, dike &/or neutralize for later disposal.
- Dispose of in accordance with Local, State, & Federal regulations.

VII. Handling and Storage:

Precautions to be Taken:
- Personal Precautionary Measures: Do not get in eyes, on skin, or on clothing.
- Use adequate ventilation. Wash thoroughly after handling.
- Keep from contact with oxidizers.
- Keep container closed. Keep away from incompatible substances.

Other Precautions:
- Avoid prolonged or repeated contact with skin.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:
- Good general ventilation (typically 10 air changes per hour) should be used.
- Use local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment:
- Use safety goggles, rubber or neoprene gloves and a plastic apron.
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IX. Physical and Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>212 F</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>NE</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>Approx 18</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>1</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Clear pale yellow liq. Low odor</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.24500</td>
</tr>
</tbody>
</table>

X. Stability and Reactivity:

Stability: Stable

Incompatibility (Materials to Avoid):
Strong Acids

Decomposition/By Products:
Carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of sulfur

Hazardous Polymerization:
Will not occur.

XI. Toxicological Information:

Contains hydroquinone.

XII. Ecological Information:

NE

XIII. Disposal Considerations:

Discharge, treatment, or disposal may be subject to Local, State or Federal laws.

XIV. Transport Information:

DOT Classification: Non-hazardous
IATA/ICAO Classification: Non-hazardous
IMDG Classification: Non-hazardous

XV. Regulatory Information:
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MSDS No.: A-212
- Materials Known to the State of California to cause cancer: None
- Materials Known to the State of California to cause adverse reproductive effects: None

Carcinogenicity Classification (components present at 0.1% or more)
- (IARC) International Agency for Research on Cancer: Hydroquinone, 3
- (ACGIH) American Conference of Industrial Hygienists: Hydroquinone, A3
- (NTP) National Toxicology Program: None
- (OSHA) Occupational Safety & Health Admin: None

Hydroquinone is subject to the reporting requirements of:
- SARA Title III
- SARA Section 313
- SARA 40 CFR Part 372

XVI. Other Information: