EFFECTS OF ACUTE EXPOSURE TO PRODUCT
Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
None known

SKIN CONTACT
Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT
Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION
DO NOT induce vomiting. Seek medical attention immediately.

INHALATION
If inhaled, remove to fresh air.

SECTION 2 - Product and Hazardous Ingredients Information

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>W/W %</th>
<th>Permissible Exposure Limit</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>85-95</td>
<td>not listed</td>
<td>42.6 gm/kg</td>
<td>not available</td>
</tr>
<tr>
<td>Sodium metabisulfite</td>
<td>7681-57-4</td>
<td>&lt;3</td>
<td>NIOSH TWA 5 mg/m3</td>
<td>2000 mg/kg</td>
<td>not available</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>&lt;2</td>
<td>OSHA TWA 2 mg/m3</td>
<td>320 mg/kg</td>
<td>not available</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>&lt;2</td>
<td>NIOSH (C) 2 mg/m3</td>
<td>365 mg/kg</td>
<td>not available</td>
</tr>
</tbody>
</table>

SECTION 3 - Hazards Identification
Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

SECTION 4 - First Aid Measures
SKIN CONTACT
Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT
Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION
DO NOT induce vomiting. Seek medical attention immediately.

INHALATION
If inhaled, remove to fresh air.

SECTION 5 - Fire Fighting Measures

<table>
<thead>
<tr>
<th>FLAMMABILITY</th>
<th>YES</th>
<th>NO</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEANS OF EXTINCTION</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>As needed to extinguish adjacent fire source.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FLASHPOINT (°C) AND METHOD</th>
<th>UPPER FLAMMABLE LIMIT (% BY VOLUME)</th>
<th>LOWER FLAMMABLE LIMIT (% BY VOLUME)</th>
<th>AUTOIGNITION TEMPERATURE (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not appropriate</td>
<td>Not appropriate</td>
<td>Not appropriate</td>
<td>Not appropriate</td>
</tr>
</tbody>
</table>

HAZARDOUS COMBUSTION PRODUCTS
See "Hazardous Decomposition Products".

SECTION 6 - Accidental Release
Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear splash goggles, impervious gloves and apron.

SECTION 7 - Handling and Storage
Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.
EFFECTS OF ACUTE EXPOSURE TO PRODUCT
Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
None known

SKIN CONTACT
Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT
Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION
DO NOT induce vomiting. Seek medical attention immediately.

INHALATION
If inhaled, remove to fresh air.

SECTION 3 - Hazards Identification

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
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EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
None known

SECTION 4 - First Aid Measures

SKIN CONTACT
Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT
Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION
DO NOT induce vomiting. Seek medical attention immediately.

INHALATION
If inhaled, remove to fresh air.

SECTION 5 - Fire Fighting Measures

FLAMMABILITY
YES NO X
IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINCTION
As needed to extinguish adjacent fire source.

SECTION 6 - Accidental Release

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear appropriate protective equipment.

SECTION 7 - Handling and Storage

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.
SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.
SKIN Latex or nitrile
EYE Splash goggles
RESPIRATORY Not normally required
OTHER Eye wash station

SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid
ODOR AND APPEARANCE Clear, off-white to pale yellow liquid
ODOR THRESHOLD Not available
VAPOUR PRESSURE (mm Hg) < 17
VAPOUR DENSITY (Air = 1) 0.6 mm Hg
EVAPORATION RATE (Water = 1) Not available
BOILING POINT (°C) ≥ 212°F
FREEZING POINT (°C) ≤ 32°F
pH 2.90
SPECIFIC GRAVITY 1.075
SOLUBILITY IN WATER (20°C) Complete
COEFFICIENT WATER OIL Not available
PERCENT VOLATILE (BY VOLUME) 85%

SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES X NO □
INCOMPATIBILITY WITH OTHER SUBSTANCES YES X NO □
REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS None

SECTION 11 - Toxicological Information

EXPOSURE LIMITS None known
IRRITANCY OF PRODUCT Eye: Irritant
SENSITIZATION TO PRODUCT None known
TERATOGENICITY Not known
REPRODUCTIVE TOXICITY Not known
MUTAGENICITY Not known
SYNERGISTIC PRODUCTS Not known
CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.

SECTION 12 - Ecological Information

No data available

SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

SECTION 14 - Transportation Information

Not regulated for transportation

SECTION 15 - Regulatory Information

SARA Section 304, CERCLA Hazardous components - (None)
SARA Section 302,304,313 Hazardous components (None)
Not a controlled product under Canadian WHMIS regulations.

SECTION 16 - Other Information

The information contained in this MSDS is furnished without warranty of any kind. The user should consider this data a supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.
**SECTION 1 - General Information**

**PRODUCT NAME**

T2 Automatic X-Ray Developers Concentrate, Part 1

**PRODUCT USE**

Photographic solution

**HMIS SCALE**

HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 PPE C

**SUPPLIER**

White Mountain Imaging

**ADDRESS**

P.O. Box 216 Salisbury NH 03268

**PHONE NO.**

603-648-2124

**EMERGENCY TEL #**

CHEMTREC 800-424-9300

**SECTION 2 - Product and Hazardous Ingredients Information**

**HAZARDOUS INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>W/W %</th>
<th>Permissible Exposure Limit</th>
<th>LD50 (mg/kg)</th>
<th>LC50 (mg/kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60-70</td>
<td>not listed</td>
<td>42.6</td>
</tr>
<tr>
<td>Sodium metabisulfite</td>
<td>7681-57-4</td>
<td>5-10</td>
<td>NIOSH TWA 5 mg/m3</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>5-10</td>
<td>OSHA TWA 2 mg/m3</td>
<td>320 mg/kg</td>
</tr>
<tr>
<td>Sodium metaborates</td>
<td>1310-58-3</td>
<td>2-6</td>
<td>NIOSH (C) 2 mg/m3</td>
<td>365 mg/kg</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>12179-04-3</td>
<td>2-6</td>
<td>NIOSH TWA 1 mg/m3</td>
<td>not available</td>
</tr>
</tbody>
</table>

**SECTION 3 - Hazards Identification**

**EFFECTS OF ACUTE EXPOSURE TO PRODUCT**

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

**EFFECTS OF CHRONIC EXPOSURE TO PRODUCT**

None known

**SECTION 4 - First Aid Measures**

**SKIN CONTACT**

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

**EYE CONTACT**

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

**INGESTION**

DO NOT induce vomiting. Seek medical attention immediately.

**INHALATION**

If inhaled, remove to fresh air.

**SECTION 5 - Fire Fighting Measures**

**FLAMMABILITY**

Yes X No

**IF YES, UNDER WHAT CONDITIONS**

If needed to extinguish adjacent fire source.

**MEANS OF EXTINCTION**

As needed to extinguish adjacent fire source.

**FLASHPOINT (°C) AND METHOD**

Not applicable

**UPPER FLAMMABLE LIMIT (% BY VOLUME)**

Not applicable

**LOWER FLAMMABLE LIMIT (% BY VOLUME)**

Not applicable

**AUTOIGNITION TEMPERATURE (°C)**

Not applicable

**HAZARDOUS COMBUSTION PRODUCTS**

See "Hazardous Decomposition Products".

**EXPLOSION DATA**

Not susceptible

**SENSITIVITY TO IMPACT**

Not susceptible

**SENSITIVITY TO STATIC DISCHARGE**

Not susceptible

**SECTION 6 - Accidental Release**

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear appropriate protective equipment.

**SECTION 7 - Handling and Storage**

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.
SECTION 8 - Exposure Controls

VENTILATION  Good general ventilation.

SKIN  Latex or nitrile

EYE  Splash goggles

RESPIRATORY  Not normally required

OTHER  Eye wash station

SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE  Liquid

ODOR AND APPEARANCE  Clear, off-white to pale yellow liquid

VAPOUR PRESSURE (mmHg)  < 17 mm Hg

VAPOUR DENSITY (Air = 1)  0.6 mm Hg

EVAPORATION RATE (Water = 1)  Not available

BOILING POINT (°C)  ≥ 212°F

FREEZING POINT (°C)  ≤ 32°F

pH  10.60

SPECIFIC GRAVITY  1.270

SOLUBILITY IN WATER (20°C)  Complete

COEFF WATER-OIL  Not available

PERCENT VOLATILE (BY VOLUME)  Not available

SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY  X

IF NO, UNDER WHAT CONDITIONS

INCOMPATIBILITY WITH OTHER SUBSTANCES  X

IF YES, WHICH ONES?  Strong oxidizing agents and strong acids

REACTIVITY, AND UNDER WHAT CONDITIONS  Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS  None

SECTION 11 - Toxicological Information

EXPOSURE LIMITS  None known

IRRITANCY OF PRODUCT  Skin: Irritant

SENSITIZATION TO PRODUCT  None known

CARCINOGENICITY  Not listed by IARC, OSHA or ACGIH.

TERATOGENICITY  Not known

REPRODUCTIVE TOXICITY  Not known

MUTAGENICITY  Not known

SYNERGISTIC PRODUCTS  Not known

SECTION 12 - Ecological Information

No data available

SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

SECTION 14 - Transportation Information

Not regulated for transportation

SECTION 15 - Regulatory Information

SARA: Reportable quantity (RQ) for Hydroquinone 5000 lb, Potassium hydroxide 1000 lb
SARA Section 304, CERCLA Hazardous components - (None)
SARA Section 302,304,313 Hazardous components (None)
Not a controlled product under Canadian WHMIS regulations.

SECTION 16 - Other Information

The information contained in this MSDS is furnished without warranty of any kind. The user should consider this data a supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.
SECTION 8 - Exposure Controls

VENTILATION  Good general ventilation.
SKIN Latex or nitrile
EYE Splash goggles
RESPIRATORY Not normally required

SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE   Odor and Appearance   Odor Threshold
Liquid  Pale yellow liquid  Not available

VAPOUR PRESSURE (mm Hg)  VAPOUR DENSITY (Air = 1)  EVAPORATION RATE (Water = 1)  BOILING POINT (°C)  FREEZING POINT (°C)
< 17 mm Hg  0.6 mm Hg  Not available  ≥ 212°F  ≤ 32°F

pH  10.50  SPECIFIC GRAVITY  1.080  SOLUBILITY IN WATER (20°C) Complete  COEFF WATER OIL  Not available  PERCENT VOLATILE (BY VOLUME)  85%

SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY  INCOMPATIBILITY WITH OTHER SUBSTANCES
YES  x  NO  IF NO, UNDER WHAT CONDITIONS
x  NO  IF YES, WHICH ONES?

HAZARDOUS DECOMPOSITION PRODUCTS  Sulfur dioxide

REACTION, AND UNDER WHAT CONDITIONS  Stable under ambient pressure and temperature.

SECTION 11 - Toxicological Information

EXPOSURE LIMITS  IRRITANCY OF PRODUCT  SENSITIZATION TO PRODUCT  CARCINOGENICITY
Hydroquinone 2.0 mg/m³  Eye: Irritant  None known  Not listed by IARC, OSHA or ACGIH.
Potassium hydroxide 2.0

TERATOGENICITY  REPRODUCTIVE TOXICITY  MUTAGENICITY  SYNERGISTIC PRODUCTS
Not known  Not known  Not known  Not known

SECTION 12 - Ecological Information

No data available

SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

SECTION 14 - Transportation Information

Not regulated for transportation

SECTION 15 - Regulatory Information

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SARA Section 304, CERCLA Hazardous components - (None)
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Prepared by  Envision Compliance Ltd.
Phone Number  905-760-1638
March 5, 2002
4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX, 4010D-LA, 4010D-MR, 4010D-MV,
4010D-UM, 4200D, 4200D-LA