MATERIAL SAFETY DATA SHEET

SECTION 1 - General Information

PRODUCT NAME: T2 ESC Developer Systems Cleaner, Part 1

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>95-99</td>
<td>not listed</td>
<td>42.6 gm/kg</td>
<td>not available</td>
</tr>
<tr>
<td>Potassium permanganate</td>
<td>7722-64-7</td>
<td>2-4</td>
<td>OSHA C 5 mg(Mn)m3</td>
<td>1090 mg/kg</td>
<td>not available</td>
</tr>
</tbody>
</table>

SECTION 3 - Hazards Identification

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

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
None known

SECTION 4 - First Aid Measures

SKIN CONTACT
Rinse with ESC diluted neutralizer & wash exposed skin 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.

FLASHPOINT (°C) AND METHOD
Not appropriate

UPPER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate
LOWER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate
AUTOIGNITION TEMPERATURE (°C) Not appropriate

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

Neutralize with diluted ESC Neutralizer Rinse or sodium sulfite. When neutralization is complete the solution will be white. 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.
MATERIAL SAFETY DATA SHEET

SECTION 1 - General Information

PRODUCT NAME: T2 ESC Developer Systems Cleaner, Neutralizer

PRODUCT USE: Photographic solution

HMIS SCALE: 1

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

PPE: C

SUPPLIER: White Mountain Imaging

ADDRESS: PO 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 | CAS NUMBER | W/W % | Permissible Exposure Limit | LD50 | LC50
--- | --- | --- | --- | --- | ---
Water | 7732-18-5 | 95-99 | not listed | 42.6 gm/kg | not available
Sodium sulfite | 7757-83-7 | 10-25 | not listed | 2825 mg/kg | not available

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 cold or ambient 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: NO

IF YES, UNDER WHAT CONDITIONS: X

MEANS OF EXTINCTION
As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD
Not appropriate

UPPER FLAMMABLE LIMIT (% BY VOLUME)
Not appropriate

LOWER FLAMMABLE LIMIT (% BY VOLUME)
Not appropriate

AUTOIGNITION TEMPERATURE (°C)
Not appropriate

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

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>ODOR AND APPEARANCE</th>
<th>VAPOR PRESSURE (mm Hg)</th>
<th>VAPOUR DENSITY (Air = 1)</th>
<th>EVAPORATION RATE (Water = 1)</th>
<th>BOILING POINT</th>
<th>FREEZING POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Clear white liquid</td>
<td>&lt; 17 mm Hg</td>
<td>0.6 mm Hg</td>
<td>Not available</td>
<td>&gt; 212°F</td>
<td>&lt; 32°F</td>
</tr>
<tr>
<td>pH</td>
<td>7.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10 - Stability and Reactivity Data

CHALLENGED STABILITY: Yes
INCOMPATIBILITY WITH OTHER SUBSTANCES: Strong reducing agents, strong acids.
REACTIVITY, AND UNDER WHAT CONDITIONS: Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide

SECTION 11 - Toxicological Information

<table>
<thead>
<tr>
<th>EXPOSURE LIMITS</th>
<th>IRRITANCY OF PRODUCT</th>
<th>SENSITIZATION TO PRODUCT</th>
<th>CARCINOGENICITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid 1.0 mg/m3</td>
<td>Skin: Irritant</td>
<td>None known</td>
<td>Not listed by IARC,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OSHA or ACGIH.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERATOGENICITY</th>
<th>REPRODUCTIVE TOXICITY</th>
<th>MUTAGENICITY</th>
<th>SYNERGISTIC PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not known</td>
<td>Not known</td>
<td>Not known</td>
<td>Not known</td>
</tr>
</tbody>
</table>

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: TPQ for sodium sulfite is 5000 lb
SARA Section 304, CERCLA Hazardous components
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 ESC Developer Systems Cleaner, Part 2

PRODUCT USE
Photographic solution

HMIS SCALE
1 0 0

SUPPLIER
White Mountain Imaging

CATALOG #
4902EC

ADDRESS
PO Box 216 Salisbury NH 03268

EMERGENCY TEL #
CHEMTREC 800-424-9300

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>95-99</td>
<td>not listed</td>
<td>42.6 gm/kg</td>
<td>not available</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
<td>2-4</td>
<td>OSHA TWA 1 mg/m3</td>
<td>2140 mg/kg</td>
<td>5.1 g/m^2 2h</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
Dermatitis

SECTION 4 - First Aid Measures

SKIN CONTACT
Rinse with diluted ESC Neutralizer and wash exposed skin with soap and water. If irritation persists seek medical advice.

EYE CONTACT
Flush eyes with water for 15 minutes. Seek medical advice immediately.

INGESTION
DO NOT induce vomiting. Seek medical attention immediately.

INHALATION
If inhaled, remove to fresh air.

SECTION 5 - Fire Fighting Measures

MEANS OF EXTINCTION
As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD
Not appropriate

UPPER FLAMMABLE LIMIT (% BY VOLUME)
Not appropriate

LOWER FLAMMABLE LIMIT (% BY VOLUME)
Not appropriate

AUTOIGNITION TEMPERATURE (°C)
Not appropriate

HAZARDOUS COMBUSTION PRODUCTS
See "Hazardous Decomposition Products".

SENSITIVITY TO IMPACT
Not susceptible

SENSITIVITY TO STATIC DISCHARGE
Not susceptible

SECTION 6 - Accidental Release

Neutralize with ESC Neutralizer Rinse or sodium sulfite. When neutralization is complete the solution will be white. 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.
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

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>ODOR AND APPEARANCE</th>
<th>ODOR THRESHOLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Clear white liquid</td>
<td>Not available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VAPOUR PRESSURE (mm Hg)</th>
<th>VAPOUR DENSITY (Air = 1)</th>
<th>EVAPORATION RATE (Water = 1)</th>
<th>BOILING POINT</th>
<th>FREEZING POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 17 mm Hg</td>
<td>0.6 mm Hg</td>
<td>Not available</td>
<td>&gt; 212°F</td>
<td>&lt; 32°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>SPECIFIC GRAVITY</th>
<th>SOLUBILITY IN WATER (20°C)</th>
<th>COEFF WATER OIL</th>
<th>PERCENT VOLATILE (BY VOLUME)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50</td>
<td>1.055</td>
<td>Complete</td>
<td>Not available</td>
<td>85%</td>
</tr>
</tbody>
</table>

SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY: No
INCOMPATIBILITY WITH OTHER SUBSTANCES: Strong reducing agents, strong bases.
REACTIVITY, AND UNDER WHAT CONDITIONS: Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide

SECTION 11 - Toxicological Information

<table>
<thead>
<tr>
<th>EXPOSURE LIMITS</th>
<th>IRRITANCY OF PRODUCT</th>
<th>SENSITIZATION TO PRODUCT</th>
<th>CARCINOGENICITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>None known</td>
<td>None known</td>
<td>Not listed by IARC, OSHA or ACGIH.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TERA TOGENICITY</th>
<th>REPRODUCTIVE TOXICITY</th>
<th>MUTAGENICITY</th>
<th>SYNERGISTIC PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not known</td>
<td>Not known</td>
<td>Not known</td>
<td>Not known</td>
</tr>
</tbody>
</table>

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

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

OTHER
Eye wash station

SECTION 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>ODOUR AND APPEARANCE</th>
<th>VAPOUR PRESSURE (mm Hg)</th>
<th>VAPOUR DENSITY (Air = 1)</th>
<th>EVAPORATION RATE (Water = 1)</th>
<th>BORING POINT</th>
<th>FREEZING POINT</th>
<th>PH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Deep blue liquid</td>
<td>&lt; 17 mm Hg</td>
<td>0.6 mm Hg</td>
<td>Not available</td>
<td>&gt; 212°F</td>
<td>&lt; 32°F</td>
<td>9.50</td>
</tr>
<tr>
<td>pH</td>
<td>9.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Oxygen

SECTION 11 - Toxicological Information

EXPOSURE LIMITS
Potassium permanganate
5 ppm TLV

IRRITANT OF PRODUCT
None known

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 Potassium permanganate is 100 lb
SARA Section 304, CERCLA Hazardous components
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.

PREPARED BY White Mountain Imaging

PHONE NUMBER 603-228-5222

May 8, 2013