1. Identification

Material name: ALUMINUM ETCH 16:1:1:2
Issue date: 07-October-2016
Revision date: -
Supersedes date: -
Other means of identification:
  Spec ID: 10000002073
  Synonyms: None.
Recommended use: Etchant used in semiconductor manufacturing.
Recommended restrictions: None known.
Supplier information:
  FUJIFILM Electronic Materials U.S.A., Inc.
  80 Circuit Drive
  North Kingstown RI 02852
  Transportation Emergency: FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300
  Medical Emergency (24HR): FOR ANY HEALTH & MEDICAL EMERGENCY, 24 HOURS / 7 DAYS CALL: 1-800-365-8951
  Non-emergency Telephone: FOR ALL SDS REQUESTS & QUESTIONS, CALL CUSTOMER SERVICE: 1-800-553-6546

2. Hazard(s) identification

Physical hazards: Corrosive to metals Category 1
Health hazards:
  Skin corrosion/irritation Category 1B
  Serious eye damage/eye irritation Category 1
OSHA defined hazards: Not classified.
Label elements:

Signal word: Danger
Hazard statement: May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statement:
  Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Keep only in original container.
  Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Absorb spillage to prevent material damage.
  Storage: Store locked up.
  Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Common name and synonyms</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td></td>
<td>60-80</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>64-19-7</td>
<td></td>
<td>0-10</td>
</tr>
<tr>
<td>Nitric acid</td>
<td>7697-37-2</td>
<td></td>
<td>0-5</td>
</tr>
</tbody>
</table>

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The product contains: Water.

4. First-aid measures

**Inhalation**
Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**Skin contact**
Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention immediately. Chemical burns must be treated by a physician.

**Eye contact**
Flush thoroughly with water for at least 15 minutes. Get immediate medical attention. If medical assistance is not immediately available, flush an additional 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing.

**Ingestion**
Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Lay on the side. Obtain medical attention and take along this material safety data sheet.

5. Fire-fighting measures

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None.

Specific hazards arising from the chemical
By heating and fire, toxic and corrosive vapors/gases may be formed.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Avoid any exposure. Wear suitable protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and materials for containment and cleaning up**
Absorb spillage with suitable absorbent material. For waste disposal, see Section 13 of the SDS.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground unless authorized by permit.

7. Handling and storage

**Precautions for safe handling**
Mechanical ventilation or local exhaust ventilation may be required. Avoid any exposure. Wear approved safety goggles. Wear protective gloves and appropriate clothing to prevent skin contact. Work practice should minimize contact. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**
Store in closed original container in a dry place. Store away from incompatible materials.
8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid (CAS 64-19-7)</td>
<td>PEL</td>
<td>25 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ppm</td>
</tr>
<tr>
<td>Nitric acid (CAS 7697-37-2)</td>
<td>PEL</td>
<td>5 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ppm</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>PEL</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid (CAS 64-19-7)</td>
<td>STEL</td>
<td>15 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Nitric acid (CAS 7697-37-2)</td>
<td>STEL</td>
<td>4 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>STEL</td>
<td>3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid (CAS 64-19-7)</td>
<td>STEL</td>
<td>37 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ppm</td>
</tr>
<tr>
<td>Nitric acid (CAS 7697-37-2)</td>
<td>STEL</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>4 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ppm</td>
</tr>
<tr>
<td>Phosphoric acid (CAS 7664-38-2)</td>
<td>STEL</td>
<td>3 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety goggles.

Skin protection

Hand protection

Wear protective gloves impervious to the chemicals in use.

Other

Also wear appropriate clothing to prevent any possibility of skin contact. Suitable items can be recommended by the protective equipment supplier or by a qualified industrial hygienist.

Respiratory protection

In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 1910.134. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state: Liquid.

Form: Liquid.

Color: Colorless to Pale Yellow.
Odor: Vinegar-like.
Odor threshold: No data available.
\( \text{pH} \): \(< 2 \ (25 \, ^\circ \text{C}) \)
Initial boiling point and boiling range: 244.4 - 249.8 °F (118 - 121 °C)
Flash point: Not applicable.
Evaporation rate: \(< 1 \ (\text{Water} = 1) \)
Flammability (solid, gas): Not applicable.
Upper/lower flammability or explosive limits:
- Flammability limit - lower (%): Not applicable.
- Flammability limit - upper (%): Not applicable.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: 1.5 - 1.7
Solubility(ies):
- Solubility (water): Completely miscible with water.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: None.
Decomposition temperature: No data available.
Viscosity: 15.3 mm²/s (24°C/75°F) (Kinematic)
Other information:
- Density: 1.50 - 1.70 g/cc
- Molecular weight: Not applicable/mixture.
- Percent volatile: 15 - 30 %

10. Stability and reactivity
Chemical stability: Stable under normal temperature conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to avoid: Keep away from heat.
Incompatible materials:
- Strong alkalis.
- Alkalis (organic).
- Alkali metals.
- Metals.
- Strong oxidizing agents.
- Peroxide.
- Amines.
- Bases.
- Alcohols.
- Cyanides.
- Sulfides.
- Glass.
- Silica.
Hazardous decomposition products:

11. Toxicological information
Information on likely routes of exposure:
- Inhalation: Causes respiratory tract burns. High concentrations: May cause lung damage.
- Skin contact: Causes severe skin burns.
- Eye contact: Causes serious eye damage.
- Ingestion: Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics:
- Inhalation: May cause damage to mucus membranes in nose, throat, lungs and bronchial system. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure. Eye contact: Prolonged contact causes serious eye and tissue damage. Skin contact: May cause serious chemical burns to the skin. Ingestion: May cause burns in mucous membranes, throat, esophagus and stomach.

Information on toxicological effects
Acute toxicity:

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid (CAS 64-19-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>1060 mg/kg</td>
</tr>
</tbody>
</table>

1000000002073 ALUMINUM ETCH 16:1:1:2
912092 SDS file: 10379_US_EN_V1.0
FFEM SDS US
### Test Results

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Rat</td>
<td>11.4 mg/l, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td>Rat</td>
<td>3.31 g/kg</td>
</tr>
<tr>
<td><strong>Nitric acid (CAS 7697-37-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Rat</td>
<td>130 mg/m³, 4 h</td>
</tr>
<tr>
<td><strong>Phosphoric acid (CAS 7664-38-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td>Rabbit</td>
<td>2740 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td>Rat</td>
<td>2600 mg/kg, (Approximate)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes severe skin burns.

**Serious eye damage/eye irritation**
Causes serious eye damage.

**Respiratory or skin sensitization**
- **Respiratory sensitization**
  Due to lack of data the classification is not possible.
- **Skin sensitization**
  Due to lack of data the classification is not possible.

**Germ cell mutagenicity**
Based on available data, the classification criteria are not met.

**Carcinogenicity**
Due to lack of data the classification is not possible.

**IARC Monographs. Overall Evaluation of Carcinogenicity**
Not listed.

**NTP Report on Carcinogens**
Not listed.

Not regulated.

**Reproductive toxicity**
Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure**
Due to lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure**
Due to lack of data the classification is not possible.

**Aspiration hazard**
Based on available data, the classification criteria are not met.

**Chronic effects**
May cause lung damage. Inhalation of vapor or mist may cause lung edema. Erosion of exposed teeth. Exposure to this product is associated with an increased risk of bronchitis.

### 12. Ecological information

**Ecotoxicity**
The product contains a substance which is harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acetic acid (CAS 64-19-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Common shrimp, sand shrimp (Crangon crangon)</td>
</tr>
<tr>
<td><strong>Fish</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Channel catfish (Ictalurus punctatus)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Western mosquito fish (Gambusia affinis)</td>
</tr>
<tr>
<td><strong>Nitric acid (CAS 7697-37-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>LC50</td>
<td>Green or European shore crab (Carcinus maenas)</td>
</tr>
<tr>
<td><strong>Phosphoric acid (CAS 7664-38-2)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
</tr>
</tbody>
</table>
Components | Species | Test Results
--- | --- | ---
Fish | LC50 | Oryzias latipes
| | | 75.1 mg/l, 96 hours

Persistence and degradability
The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential
Not relevant for inorganic substances.

Octanol/water partition coefficient log Kow
-0.31

Mobility in soil
No data available.

Mobility in general
The product is miscible with water. May spread in water systems.

Other adverse effects
The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

13. Disposal considerations

Disposal instructions
Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous waste code
D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

Waste from residues / unused products
Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number
UN1760

UN proper shipping name
Corrosive liquids, n.o.s. (Phosphoric acid, Acetic acid)

Transport hazard class(es)
Class: 8
Subsidiary risk: -
Label(s): 8
Packing group: II

Environmental hazards
Marine pollutant: No

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Special provisions
B2, IB2, T11, TP2, TP27

Packaging exceptions
154

Packaging non bulk
202

Packaging bulk
242

IATA

UN number
UN1760

UN proper shipping name
Corrosive liquid, n.o.s. (Phosphoric acid, Acetic acid)

Transport hazard class(es)
Class: 8
Subsidiary risk: -
Label(s): 8
Packing group: II

Environmental hazards
Marine pollutant: No

ERG Code
8L

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number
UN1760

UN proper shipping name
CORROSIVE LIQUID, N.O.S. (Phosphoric acid, Acetic acid)

Transport hazard class(es)
Class: 8
Subsidiary risk: -
Label(s): 8
Packing group: II

Environmental hazards
Marine pollutant: No
EmS
F-A, S-B

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
This substance/mixture is not intended to be transported in bulk.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
15. Regulatory information

**US federal regulations**
- This product is hazardous according to OSHA 29 CFR 1910.1200.
- TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.
- TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

- Drug Enforcement Administration (DEA). List 1(i), Precursor Chemicals (21 CFR 1310.02(a) and 1310.04(f)(1))
  - Not listed.
- TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs)(40CFR 721, Subpt. E)
  - Not regulated.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  - Not regulated.

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Not regulated.

- US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity
  - Nitric acid (CAS 7697-37-2) 1000 LBS
- US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity
  - Nitric acid (CAS 7697-37-2) 1000 LBS
- US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration
  - Nitric acid (CAS 7697-37-2) 1.0 %
- US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
  - Nitric acid (CAS 7697-37-2) Listed.

- CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
  - Phosphoric acid: 5000
  - Acetic acid: 5000
  - Nitric acid: 1000

- Superfund Amendments and Reauthorization Act of 1986 (SARA)
  - Immediate Hazard - Yes
  - Delayed Hazard - Yes
  - Fire Hazard - No
  - Pressure Hazard - No
  - Reactivity Hazard - No

- Section 302 extremely hazardous substance (40 CFR 355, Appendix A)
  - No

- Section 311/312 (40 CFR 370)
  - Yes

- Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
  - Not controlled

**Superfund status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

All ingredients are TSCA compliant.

* "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**State regulations**
- This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

- **US. Massachusetts RTK - Substance List**
  - Acetic acid (CAS 64-19-7) Listed.
  - Nitric acid (CAS 7697-37-2) Listed.
  - Phosphoric acid (CAS 7664-38-2) Listed.

- **US. New Jersey Worker and Community Right-to-Know Act**
  - Acetic acid (CAS 64-19-7)
  - Nitric acid (CAS 7697-37-2)
  - Phosphoric acid (CAS 7664-38-2)

- **US. Pennsylvania Worker and Community Right-to-Know Law**
  - Acetic acid (CAS 64-19-7)
  - Nitric acid (CAS 7697-37-2)
Phosphoric acid (CAS 7664-38-2)

US. Rhode Island RTK

Acetic acid (CAS 64-19-7) Listed.
Nitric acid (CAS 7697-37-2) Listed.
Phosphoric acid (CAS 7664-38-2) Listed.

16. Other information, including date of preparation or last revision

Further information

HMIS® is a registered trade and service mark of the NPCA.
G - Safety Glasses, Gloves, Vapor Respirator

HMIS® ratings

Health: 3
Flammability: 0
Physical hazard: 0
Personal protection: G

List of abbreviations

LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.
EC50: Effective Concentration, 50%.

Disclaimer

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. FUJIFILM ELECTRONIC MATERIALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT FUJIFILM ELECTRONIC MATERIALS AT THE PHONE NUMBER 1-800-553-6546 (CUSTOMER SERVICE) TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

This SDS contains revisions in the following section(s):

1, 2, 3, 8, 9, 11, 12, 13, 16.

SDS file

10379_US_EN_V1.0

Replaces file

10379_US_EN_V1.0