SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mitsubishi SDP-αOEL Deletion Pen
PRODUCT NUMBER: DATE: July 23, 2009

TRADE NAME: Mitsubishi SDP-αOEL Deletion Pen
GENERAL USE: Deletion pen for SDP-α System
PRODUCT DESCRIPTION: Dark brown viscous aqueous liquid, characteristic odor

MANUFACTURER
Mitsubishi Paper Mills Ltd.

DATE PREPARED: July 23, 2009
SUPERSEDES: August 14, 2007

ADDRESS (NUMBER, STREET, P.O. BOX)
4-2 Marunouchi 3-Chome

TELEPHONE NUMBER FOR INFORMATION / Customer Service
03-3213-3641

(CITY, STATE AND ZIP CODE) COUNTRY
Chiyoda-ku, Tokyo 100-005 Japan

DISTRIBUTOR
Mitsubishi Imaging (MPM), Inc.

TELEPHONE NUMBER FOR INFORMATION / Customer Service
(914) 925-3200

ADDRESS (NUMBER, STREET, P.O. BOX)
555 Theodore Fremd Avenue

TELEPHONE NUMBER FOR INFORMATION / Customer Service
1-800-424-9300 North America Toll Free International

(CITY, STATE AND ZIP CODE) COUNTRY
Rye, NY 10580 USA

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components % (by Weight) CAS # EINECS # Hazard Symbol RISK PHRASES (Full Text Section 15)

Diethylenetriamine Pentaacetic Acid mono iron, Diammonium Salt 10-30 85959-68-8 289-064-0 NC Not Classified

Potassium Iodide 7-13 7681-11-0 231-659-4 Xn R-36/38, 42/43,63

Malonic acid 3-7 141-82-2 205-503-0 Xn R-22, 41, 37/38

Triethylene glycol monobutyl ether 10 - 30 143-22-6 205-592-6 Xi R-36/37/38

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 91/155/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Acidic liquid, contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - Xi, Risk Phrases - R36/37/38

POTENTIAL HEALTH EFFECTS

INHALATION:
Irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise.

SKIN:
Irritation may result from contact; prolonged contact may cause moderate reddening, swelling and possible necrosis.

EYES:
Contact with eyes is painful and irritating and may cause chemical burns, associated with redness and swelling of the conjunctiva.

INGESTION:
Irritating to digestive tract; may cause gastric distress, stomach pains and vomiting; moderately toxic, may result in red blood cell hemolysis. Repeated contact with Potassium Iodide may affect the thyroid gland function.

CARCINOGENICITY:
NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO ESIS NOTATION? NO
MITSUBISHI SDP-α OEL Deletion Pen

TRADE NAME: Mitsubishi SDP-α OEL Deletion Pen

PRODUCT NUMBER: Mitsubishi SDP-α OEL Deletion Pen

DATE: July 23, 2009

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; if breathing difficulties persist seek medical attention.

EYES:
Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

SKIN:
Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; if irritation persists, seek medical attention immediately.

INGESTION:
Drink large quantities of water or milk; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Product is not considered flammable or combustible. Product is acidic. Products of combustion include compounds of carbon, hydrogen, iodine, nitrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA:
Carbon Dioxide, water, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES:
Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Contact with B:C extinguisher powder may produce large amounts of carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:
Smoke, fumes, oxides of carbon, oxides of nitrogen and iodine.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Material is acidic and will irritate the eyes if product is allowed to directly contact the eyes. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylenetriamine Pentaacetic Acid mono iron, Diammonium Salt</td>
<td>TWA ppm</td>
<td>TWA mg/m³</td>
<td>STEL ppm</td>
</tr>
<tr>
<td>Potassium Iodide</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Malonic acid</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Triethylene glycol monobutyl ether</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES:
Neoprene or rubber gloves with cuffs.

EYE PROTECTION:
Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES:
Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.
MITSUBISHI SDP-α OEL Deletion Pen

TRADE NAME: Mitsubishi SDP-α OEL Deletion Pen
PRODUCT NUMBER: Mitsubishi SDP-α OEL Deletion Pen
DATE: July 23, 2009

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR
Dark brown viscous aqueous liquid, characteristic odor

VAPOR PRESSURE
17 mm Hg @ 20°C

pH
3.1 ± 0.2

BOILING POINT / BOILING RANGE
212°F (100°C) Complete

FLASH POINT
Not Flammable

LEL: NA UEL: NA

VAPOR DENSITY (AIR = 1)
> 1

EVAPORATION RATE (WATER = 1)
< 1

STABILITY
STABLE

CONDITIONS TO AVOID:
Extreme temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids, strong alkalis.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Decomposition will not occur if handled and stored properly. Products of combustion under fire conditions include compounds of carbon, hydrogen, iodine, nitrogen and oxygen, including carbon monoxide.

HAZARDOUS POLYMERIZATION:
Will Not Occur.

SECTION 10 - STABILITY AND REACTIVITY

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components
Diethyleneetriamine Pentaacetic Acid mono iron, Diammonium Salt
Potassium Iodide
Malonic acid
Triethylene glycol monobutyl ether

LD50 of Ingredient (Specify Species and Route)
NE
2779 mg / kg Oral - rat
1310mg/kg Oral-rat
5300 mg / kg Oral - rat

LC50 of Ingredient (Specify Species)
NE
NE
>8900mg/M³ Inhalation, rat
NE

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

WASTE DISPOSAL METHOD:
According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used. Dispose of in accordance with Local, State, and Federal Regulations. Product is classified as non-hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to “40 CFR Protection of Environment Parts 260 - 299” for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated
DOT HAZARD CLASS / Pack Group: Not Regulated
IATA HAZARD CLASS / Pack Group: Not Regulated
IMDG HAZARD CLASS: Not Regulated
RID/ADR Dangerous Goods Code: Not Regulated
UN TDG Class / Pack Group: Not Regulated
Hazard Identification Number (HIN): None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Mitsubishi SDP-α OEL Deletion Pen
PRODUCT NUMBER: 

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components of this product are listed.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act): Immediate health.

Acute Health: Yes Chronic Health: NO
Fire: NO Sudden Release of Pressure: NO
Reactive: NO

SECTION 16 - OTHER INFORMATION

SAFETY PHRASES:
S2 : Keep out of the reach of children.
S24/25 : Avoid contact with skin and eyes.
S28 : After contact with skin, wash immediately with plenty of soap and water.

RISK PHRASES:
R36/37/38 : Irritating to eyes, respiratory system and skin.

SYMBOL(S) REQUIRED FOR EU/GHS LABELS

SAFETY PHRASES:
S2 : Keep out of the reach of children.
S24/25 : Avoid contact with skin and eyes.
S28 : After contact with skin, wash immediately with plenty of soap and water.

LEGEND:
ACGIH - American Congress of Government Industrial Hygienists
CAS - Chemical Abstracts Service
EINECS - European Inventory of Existing Commercial Chemical Substances
HMIS - Hazardous Materials Identification System
IARC - International Agency for Research on Cancer
NA - Not Available
ND - Not Determined
NE - Not Established
NR - Not Reported
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

HMIS HAZARD RATINGS

HEALTH:
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

PHYSICAL HAZARD:
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT:

REVISION SUMMARY:
Revised to GHS/EU/ANSI protocols 7/23/2009 supersedes 8/14/2007 issue. ~JTV~~