

# MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
<b>PRODUCT NAME:</b> Mitsubishi SLM - OA1 Fountain Solution Additive		<b>DATE:</b> December 16, 2008			
<b>PRODUCT NUMBER:</b>		<b>DATE:</b> December 16, 2008			
<b>TRADE NAME:</b> Mitsubishi SLM - OA1 Fountain Solution Additive <b>GENERAL USE:</b> Fountain solution additive for SLM/SDP <b>CHEMICAL FAMILY:</b> <b>PRODUCT DESCRIPTION:</b> Clear solution, slight odor.					
<b>MANUFACTURER</b> <b>Mitsubishi Paper Mills Ltd.</b>		<b>DATE PREPARED:</b> December 16, 2008			
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> <b>4-2 Marunouchi 3-Chome</b>		<b>SUPERSEDES:</b> August 14, 2007			
<b>(CITY, STATE AND ZIP CODE)</b> <b>Chiyoda-ku, Tokyo 100-005</b>		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> <b>03-3213-3641</b>			
<b>COUNTRY</b> <b>Japan</b>		<b>Chemtrec 24-HOUR EMERGENCY TELEPHONE NUMBER</b> <b>1-800-424-9300</b> <b>01-703-527-3887</b> North America Toll Free                      International			
<b>DISTRIBUTOR</b> <b>Mitsubishi Imaging (MPM), Inc.</b>					
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> <b>555 Theodore Fremd Avenue</b>		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service</b> <b>(914) 925-3200</b>			
<b>(CITY, STATE AND ZIP CODE)</b> <b>Rye, NY 10580</b>		<b>Chemtrec 24-HOUR EMERGENCY TELEPHONE NUMBER</b> <b>1-800-424-9300</b> <b>01-703-527-3887</b> North America Toll Free                      International			
<b>COUNTRY</b> <b>USA</b>					
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	40 - 60	9038-95-3	Not Found	Xi	R-36/38
<b>NOTES:</b> Note: 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					
<b>EMERGENCY OVERVIEW</b> Slightly acidic liquid, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - <b>Xi</b> , Risk Phrases - <b>R36/38</b>					
<b>POTENTIAL HEALTH EFFECTS</b>					
<b>INHALATION:</b> Breathing concentrated vapors may cause irritation of respiratory tract.					
<b>SKIN:</b> Prolonged contact may cause irritation.					
<b>EYES:</b> Contact with eyes will cause irritation.					
<b>INGESTION:</b> May cause gastric distress, vomiting and diarrhea.					
<b>CARCINOGENICITY:</b>					
NTP? <b>NO</b>		IARC MONOGRAPHS? <b>NO</b>		OSHA REGULATED? <b>NO</b>	
CALIFORNIA, Prop.65? <b>NO</b>				ESIS NOTATION? <b>NO</b>	

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## 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.

**INGESTION:**

Drink two glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids; 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 acidic. Products of combustion include compounds of carbon, hydrogen 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. Material is acidic and will irritate the eyes if product is allowed to directly contact the eyes.

**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.

## 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	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
<b>Poly(ethylene glycol-ran-propylene glycol) monobutyl ether</b>		<b>NE</b>				<b>NE</b>		

### PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**

None required while threshold limits 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 gloves, butyl or nitrile 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, safety eyewash station nearby.

**WORK / HYGIENIC PRACTICES:**

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR <b>Clear solution, slight odor.</b>	VAPOR PRESSURE <b>17 mm Hg @ 20° C</b>
pH <b>4.2 ± 0.2</b>	SPECIFIC GRAVITY (WATER = 1) <b>1.048 ± 0.005</b>
BOILING POINT / BOILING RANGE <b>212° F (100° C)</b>	SOLUBILITY IN WATER <b>Complete</b>
FLASH POINT <b>Non-Flammable</b>	VISCOSITY <b>Not Specified</b>
FLAMMABLE LIMITS LEL: <b>NA</b> UEL: <b>NA</b>	VAPOR DENSITY (AIR = 1) <b>&gt; 1</b>
AUTO-IGNITION TEMPERATURE <b>ND</b>	EVAPORATION RATE (WATER = 1) <b>&lt; 1</b>

VOLATILE ORGANIC COMPOUND (VOC) INFORMATION  
**There are no known Volatile Organic Compounds (VOCs) in this product.**

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	<b>X</b>	CONDITIONS TO AVOID: <b>Extreme temperatures.</b>
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INCOMPATIBILITY (MATERIALS TO AVOID):  
**Strong alkalis, strong acids.**

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:  
**Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.**

HAZARDOUS POLYMERIZATION: <b>Will Not Occur.</b>	CONDITIONS TO AVOID: <b>None Related to Polymerization.</b>
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## SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	<b>9038-95-3</b>	<b>12,300 µL / kg Oral - Rat</b>	<b>NE</b>
	<b>Not Found</b>		

## 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.

## SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:  
 According to the European Waste Catalogue, waste codes are application specific and should be assigned by 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. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for acidic materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

## SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: <b>Not Regulated</b>	
DOT HAZARD CLASS / Pack Group: <b>Not Regulated</b>	IATA HAZARD CLASS / Pack Group: <b>Not Regulated</b>
REFERENCE: <b>NA</b>	IMDG HAZARD CLASS: <b>Not Regulated</b>
UN / NA IDENTIFICATION NUMBER: <b>None</b>	RID/ADR Dangerous Goods Code: <b>Not Regulated</b>
LABEL: <b>None Required</b>	UN TDG Class / Pack Group: <b>Not Regulated</b>
HAZARD SYMBOLS: <b>None</b>	Hazard Identification Number (HIN): <b>None</b>

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.

