


# MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
<b>PRODUCT NAME:</b> Mitsubishi SDP - α O A Fountain Solution Additive		<b>DATE:</b> July 23, 2009			
<b>PRODUCT NUMBER:</b>		<b>DATE:</b> July 23, 2009			
TRADE NAME: Mitsubishi SDP - α O A Fountain Solution Additive GENERAL USE: Fountain solution additive for SDP-α System. CHEMICAL FAMILY: Acids blend. PRODUCT DESCRIPTION: Clear colorless solution, odorless					
<b>MANUFACTURER</b> <b>Mitsubishi Paper Mills Ltd.</b>		TELEPHONE NUMBER FOR INFORMATION / Customer Service <b>03-3213-3641</b>			
ADDRESS (NUMBER, STREET, P.O. BOX) <b>4-2 Marunouchi 3-Chome</b>		<b>CHEMTREC 24-HOUR EMERGENCY TELEPHONE NUMBER</b>			
(CITY, STATE AND ZIP CODE) COUNTRY <b>Chiyoda-ku, Tokyo 100-005 Japan</b>		<b>1-800-424-9300</b> North America Toll Free		<b>01-703-527-3887</b> International	
<b>DISTRIBUTOR</b> <b>Mitsubishi Imaging (MPM), Inc.</b>		TELEPHONE NUMBER FOR INFORMATION / Customer Service <b>(914) 925-3200</b>			
ADDRESS (NUMBER, STREET, P.O. BOX) <b>555 Theodore Fremd Avenue</b>		<b>CHEMTREC 24-HOUR EMERGENCY TELEPHONE NUMBER</b>			
(CITY, STATE AND ZIP CODE) COUNTRY <b>Rye, NY 10580 USA</b>		<b>1-800-424-9300</b> North America Toll Free		<b>01-703-527-3887</b> International	
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
<b>Phosphonic acid, [nitritoltris (methylene)]tris-,pentasodium salt (a)</b>	<b>(10 - 30)</b>	<b>2235-43-0</b>	<b>218-791-8</b>	<b>NE</b>	<b>NE</b>
<b>Phosphoric acid</b>	<b>(10 - 30)</b>	<b>7664-38-2</b>	<b>231-633-2</b>	<b>C</b>	<b>R-22,34</b>
<p><b>NOTES:</b> 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.</p> <p><b>(a) This ingredient is not considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29CFR 1910.1200). However, certain regulatory agencies, government agencies or states may require listing of this ingredient or the ingredient is listed for information only.</b></p>					
SECTION 3 - HAZARDS IDENTIFICATION					
<b>EMERGENCY OVERVIEW</b>					
Acidic liquid, contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - Xi Risk Phrases - R36/37/38					
<b>POTENTIAL HEALTH EFFECTS</b>					
<b>INHALATION:</b>					
Irritating to upper respiratory tract and mucous membranes; may cause headache, dizziness, nausea, vomiting and malaise.					
<b>SKIN:</b>					
Irritation may result from contact; prolonged contact may cause moderate reddening, swelling and possible necrosis.					
<b>EYES:</b>					
Contact with eyes is painful and irritating and may cause chemical burns, associated with redness and swelling of the conjunctiva.					
<b>INGESTION:</b>					
Irritating to digestive tract; may cause gastric distress, stomach pains and vomiting; moderately toxic, may result in red blood cell hemolysis.					
<b>CARCINOGENICITY:</b>					
NTP? <b>NO</b>		IARC MONOGRAPHS? <b>NO</b>		OSHA REGULATED? <b>NO</b>	
CALIFORNIA, Prop.65? <b>NO</b>		<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, 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. 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 and nitrogen.

## 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. This is a regulated product, refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

## 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>Phosphonic acid, [nitrilotris (methylene)]tris-pentasodium salt</b>	<b>NE</b>				<b>NE</b>		<b>NE</b>	
<b>Phosphoric acid</b>		<b>1</b>		<b>3</b>		<b>1</b>		<b>3</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 colorless solution, odorless</b>	VAPOR PRESSURE <b>17 mm Hg @ 20° C</b>
pH <b>3.7 ± 0.2</b>	SPECIFIC GRAVITY (WATER = 1) <b>1.218 ± 0.02</b>
BOILING POINT / BOILING RANGE <b>&gt;212° F (&gt;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 <span style="float: right;">STABLE      X</span>	CONDITIONS TO AVOID: <b>Extreme temperatures.</b>
INCOMPATIBILITY (MATERIALS TO AVOID): <b>Strong alkalis, strong oxidizers, strong acids.</b>	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: <b>Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.</b>	
HAZARDOUS POLYMERIZATION: <b>Will Not Occur.</b>	CONDITIONS TO AVOID: <b>None Related to Polymerization.</b>

## SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Phosphonic acid, [nitrilotris (methylene)]tris-pentasodium salt	2235-43-0	> 17,800 mg / kg Oral - rat	NE
	218-791-8		
Phosphoric acid	7664-38-2	1530 mg / kg Oral - Rat	> 850 mg / m3 Inhalation - rat
	231-633-2		

## 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 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

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

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## 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**

**SARA 313 REPORTABLE INGREDIENTS:** None  
**CERCLA (USA - Comprehensive Response Compensation and Liability Act):** The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24000 lbs) or greater amounts, according to 40 CFR 302.  
**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** None listed.  
**CPR (Canadian Controlled Products Regulations):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. **WHMIS Classification: D2B**  
**IDL (Canadian Ingredient Disclosure List):** Listed.  
**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):** Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations.  
**EINECS (European Inventory of Existing Commercial Chemical Substances):** Referenced.

**WGK Water Quality Index:** 1 **VbK Index:** NA

<b>RISK PHRASES:</b> R36/37/38 Irritating to eyes, respiratory system and skin.	<b>SYMBOL(S) REQUIRED FOR EU/GHS LABEL</b>  Xi - Irritating 	<b>SAFETY PHRASES:</b> S2 : Keep out of the reach of children. S24/25 : Avoid contact with skin and eyes.
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## SECTION 16 - OTHER INFORMATION

**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

<b>HMIS HAZARD RATINGS</b>	<b>HEALTH:</b> <b>FLAMMABILITY:</b> <b>PHYSICAL HAZARD:</b> <b>PERSONAL PROTECTIVE EQUIPMENT:</b>	<b>1</b>  <b>0</b>  <b>0</b>  <b>C</b>	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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**REVISION SUMMARY:** Revised to E.U./ GHS/ ANSI protocols 7/23/2009 supersedes 8/14/2007 issue. --JTV--

<b>MSDS Prepared by:</b> ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0585 Website: www.chemtelinc.com	
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.