MATERIAL SAFETY DATA SHEET							
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION							
PRODUCT NAME: Mitsubisl GENERAL USE: Activator Concentrate for SLM/SDP PRODUCT DESCRIPTION: Colorless corrosive liquid		- A C Activ	vator	Mitsub Imagin	ishi g (MPM), Inc.		
MANUFACTURER'S NAME		DATE PREPARED	D: July 15, 2004		Page 1 of 4		
Mitsubishi Imaging (MPM), Inc.		SUPERSEDES: September 27, 2003 Page 1 of 4					
ADDRESS (NUMBER, STREET, P.O. BOX) 555 Theodore Fremd Avenue		TELEPHONE NUMBER FOR INFORMATION (914) 925-3200					
	COUNTRY	EMERGENCY TELEPHONE NUMBER					
Rye, NY 10580 DISTRIBUTOR'S NAME	USA	CHEMTREC (80	00) 424-9300 Outside	USA (703)	527-3887		
Same							
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHONE NU	MBER FOR INFORMA	TION			
(CITY, STATE AND ZIP CODE)	COUNTRY	EMERGENCY TE	LEPHONE NUMBER				
SECTION		RDOUS INGR	PEDIENTS				
HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16		
Sodium hydroxide (a,b)	1 - 5	1310-73-2	215-185-5	C	R-35		
Potassium hydroxide (a,b)	1 - 5	1310-58-3	215-181-3	С	R-35		
n-Aminoethyl ethanolamine	1 - 5	111-41-1	203-867-5	С	R-21/22, 34, 43		
(b) A "C" in the OSHA PEL or ACGIH TWA column indicates exposure.	s ceiling limits, th	e concentration that s	hould not be exceeded d	uring any par	t of the working		
SECTION	3 - HAZAI	RDS IDENTIF	CATION				
SECTION 3 - HAZARDS IDENTIFICATION EMERGENCY OVERVIEW Corrosive alkaline liquid, moderately toxic, contact with eyes may cause severe irritation or chemical burns, contact with skin may cause irritation. Ingestion may cause gastric distress and chemical burns to the digestive tract. Hazard symbols for this product - C. Risk Phrases - R 34, 36/37/38							
POTENTIAL HEALTH EFFECTS							
INHALATION: Corrosive and irritating to upper respira	atory tract and	mucous membrane	es.				
SKIN: Corrosive and irritating; chemical burns may re	sult from conta	act; severe irritant.					
EYES: CORROSIVE; Contact with eyes is painful and irritating and will cause chemical burns.							
INGESTION: Corrosive and irritating to digestive tract; may cause gastric distress, stomach pains and vomiting.							
CARCINOGENICITY	NTP?	No IARC MO	DNOGRAPHS? No	OSHA F	REGULATED? No		

PRODUCT NAME: Mitsubishi SLM - A C Activator July 15, 2004

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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.

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

INGESTION: Drink large quantities of water or milk; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is corrosive. 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; CAUTION - material is corrosive.

UNUSUAL FIRE AND EXPLOSION HAZARDS None

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes, oxides of carbon, oxides of nitrogen

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; 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. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH			ACGIH				
TIAZANDOUS CONFONENTS	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Sodium hydroxide (a,b)		2 C				2 C		
Potassium hydroxide (a,b)		2 C				2 C		
n-Aminoethyl ethanolamine	Ν	ot establish	ed					

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): 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.

MATERIAL SAFETY DATA SHEET								
PRODUCT NAME: Mitsubishi SLM - A C Activator Page 3 of 4 Page 3 of 4								
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES								
APPEARANCE AND ODOR	ND ODOR VAPOR PRESSURE							
Colorless liquid, Amine Odor		17 mm Hg @ 20º C						
pH		SPECIFIC GRAVITY (WATER = 1)						
14.0 ± 0.2 BOILING POINT / BOILING RANGE		1.106 ± 0.005 SOLUBILITY IN WATER						
212° F (100° C)		Complete						
FLASH POINT		VISCOSITY						
Non-flammable	Not specified							
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)							
LEL: Not applicable UEL: Not applicable AUTOIGNITION TEMPERATURE	> 1	RATION RATE (WATER = 1)						
Not determined	< 1	NATION NATE (WATER = 1)						
	- STABILITY A	ND REACTIVITY						
STABILITY UNSTABLE:		ONS TO AVOID: Extreme temperatu	Ires					
STABLE:								
INCOMPATIBILITY (MATERIALS TO AVOID): Strong of		, strong alkalies						
· · · ·		-						
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:		ot occur if handled and stored pro	perly. In case of a fire, oxides of					
carbon, hydrocarbons, fumes, and smoke may be produ HAZARDOUS POLYMERIZATION MAY OCCUR:		ONS TO AVOID: None						
WILL NOT OCCUR:		ONS TO AVOID. None						
		AL INFORMATION						
	CAS #	LD50 of Ingredient	LC50 of Ingredient					
Hazardous Components	EINECS #	(Specify Species and Route)	(Specify Species)					
	1310-73-2	40 mg / kg	Not established					
Sodium hydroxide (a,b)	215-185-5	IPR - Mouse						
Potassium hydroxide (a,b)	1310-58-3	273 mg / kg	Not established					
	215-181-3	Oral - rat	Net established					
n-Aminoethyl ethanolamine	111-41-1 203-867-5	3000 mg / kg Oral - rat	Not established					
	200 007 0							
SECTION 12								
		L INFORMATION						
No data are available on the adverse effects of this mate								
chemical composition of this product it is assumed that limited quantities. However, such treatment should be e								
this mixture are classified as a Marine Pollutant.		a for each specific biological syst	tem. None of the ingredients in					
SECTION 13	- DISPUSAL C	ONSIDERATIONS						
WASTE DISPOSAL METHOD: According to the Europ								
the user based on the application for which the product								
"40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state,								
or Federal Environmental Protection Agency before disposing of any chemicals.								
OFOTION 1								
		T INFORMATION						
PROPER SHIPPING NAME: Corros	sive liquid, n.o.s. (sodi							
DOT HAZARD CLASS / Pack Group: 8 / III IATA HAZARD CLASS / Pack Group: 8 / III								
REFERENCE: 49 CFR 173.154, .203, .241 IMDG HAZARD CLASS: 8 / III								
UN / NA IDENTIFICATION NUMBER: UN 1760 RID/ADR Dangerous Goods Code: 8 LABEL: CORROSIVE UN TDG Class / Pack Group: 8 / III								
HAZARD SYMBOLS: C								
Note: Transportation information provided is for referen	ce only Client is urge	ed to consult CFR 49 narts $100 - 1$	177 IMDG IATA FU United					
Nations TDG, and WHMIS (Canada) TDG information n	nanuals for detailed re	gulations and exceptions covering	g specific container sizes,					
packaging materials and methods of shipping.								

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		SECTION 15 - REGULATORY INFORMATION
TSC	A (USA - Toxic Substance Control Act)
		nponents of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted sting because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories Immediate health

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.

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.

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

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 and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

RISK PHRASES: R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin	SYMBOL(S) REQUIRED FOR EU LABEL Corrosive	SAFETY PHRASES: S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes					
SECTION 16 - OTHER INFORMATION							
Notes & full R-Phrase text	 R21/22 Harmful in contact with skin and if swallowed R34 Causes burns. R35 Causes severe burns. R36/37/38 Irritating to eyes, respiratory system and skin R43 May cause sensitization by skin contact. 						
HMIS HAZARD RATINGS	HEALTH	2	0 = INSIGNIFICAN	IT	3 = HIGH		
	FLAMMABILITY	0	1 = SLIGHT		4 = EXTREME		
	REACTIVITY	0	2 = MODERATE				
PERSO	NAL PROTECTIVE EQUIPMENT	С	Safety Glasses, Gl	loves, Apron			
REVISION SUMMARY: This MSDS has been revised in the following sections:	No revisior	ns availat	ble				
MSDS Prepared by:	Chem-Tel, Inc. 1305 N. Florida Ave. Tampa, Florida USA 33602		(800) 255-3924	Outside USA	(813) 248-0573		
The information contained herein is believed to be acc manufacturer of the product and manufacturers of the c applicable and suited to the circumstances of use. Ven reasonable safety procedures are not adhered to as stipula this material even if reasonable safety procedures are described in Section 1.	components of the product. Users dor assumes no responsibility for ated in the data sheet. Furthermor	s are advi injury to re, vendor	sed to confirm in ad vendee or third perso assumes no respons	vance of need th ons proximately o ibility for injury ca	at information is current, caused by the material if sused by abnormal use of		