MATERIAL	. SAF	ETY	DATA S	SHEE	T		
SECTION 1-PRO	DUCT AN	D COMP	ANY IDENTI	FICATIO	N .		
PRODUCT NAME: Mitsubishi SLM - A C A	Activator						
FORMULA NUMBER:				٠	Mitsub	ishi	
GENERAL USE: Activator Concentrate for SLM/SDF	C				Imagin	g (MPM), Inc.	
PRODUCT DESCRIPTION: Colorless corrosive liqu	id, amine odor						
MANUFACTURER'S NAME DATE PREPARED: January 13, 2008					Page 1 of 4		
Mitsubishi Imaging (MPM), Inc. ADDRESS (NUMBER, STREET, P.O. BOX)	SUPERSEDES: November 18, 2007 Fage 1014 TELEPHONE NUMBER FOR INFORMATION						
555 Theodore Fremd Avenue	(914) 925-3200						
(CITY, STATE AND ZIP CODE) COUNTRY		EMERGENCY TELEPHONE NUMBER					
Rye, NY 10580 DISTRIBUTOR'S NAME	USA	Chemtree	c (800) 424-9300	Outside US	A (703)5	27-3887	
Same							
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHO	NE NUMBER FOR	INFORMAT	ION		
(CITY, STATE AND ZIP CODE)	COUNTRY	EMERGEN	ICY TELEPHONE	NUMBER			
SECTION	2 - HAZA	RDOUS I	INGREDIENT	S		-	
HAZARDOUS COMPONENTS	% (by weight)	CAS	# EIN	ECS #	Hazard Symbol	RISK PHRASES Full Text Section 16	
Sodium hydroxide (a,b)	1 - 5	1310-73	3-2 215	-185-5	С	R-35	
Potassium hydroxide (a,b)	1 - 5	1310-5	8-3 215	-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 indicate exposure.	es ceiling limits, t	the concentration	on that should not be	exceeded du	ring any par	t of the working	
SECTION		RDS IDE	NTIFICATIO	N			
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 respiratory tract and mucous membranes.							
SKIN: Corrosive and irritating; chemical burns may r	esult from cont	tact; severe ir	ritant.				
EYES: CORROSIVE; Contact with eyes is painful an	nd irritating and	l will cause ch	nemical burns.				
INGESTION: Corrosive and irritating to digestive tra	ct; may cause	gastric distres	ss, stomach pains a	and vomiting	J.		
CARCINOGENICITY	NTP?	No	IARC MONOGRAPHS	? No	OSHA R	EGULATED? No	

PRODUCT NAME: Mitsubishi SLM - A C Activator January 13, 2008

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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			
	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	Not established		Not established					

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 January 13, 2008				Page 3 of 4			
SECTION 9-PHYS	SICAL A	ND CH	EMICAL PROPERTIES				
APPEARANCE AND ODOR VAPOR PRESSURE							
Colorless liquid, amine odor		17 mm					
рН	SPECIFIC GRAVITY (WATER = 1)						
14.0 ± 0.2	1.106 ± 0.005						
BOILING POINT / BOILING RANGE		SOLUBILITY IN WATER Complete					
212° F (100° C) FLASH POINT		VISCOS					
Non-flammable							
FLAMMABLE LIMITS			Not specified VAPOR DENSITY (AIR = 1)				
LEL: Not applicable UEL: Not applicable		> 1					
AUTOIGNITION TEMPERATURE		-	RATION RATE (WATER = 1)				
Not determined		< 1					
SECTION 10	- STAB	ILITY A	ND REACTIVITY				
STABILITY UNSTABLE:	• • • • • •		ONS TO AVOID: Extreme temperatu	res			
STABLE:	х	00112111					
INCOMPATIBILITY (MATERIALS TO AVOID): Strong of		rong acids.	strong alkalies				
· · · ·			-				
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:		ition will no	t occur if handled and stored prop	perly. In case of a fire, oxides of			
carbon, hydrocarbons, fumes, and smoke may be produ	iced.						
HAZARDOUS POLYMERIZATION MAY OCCUR:		CONDITI	ONS TO AVOID: None				
WILL NOT OCCUR:			·····				
SECTION 11-	<u> </u>		AL INFORMATION				
Hazardous Components		S #	LD50 of Ingredient	LC50 of Ingredient			
		CS #	(Specify Species and Route)	(Specify Species)			
Sodium hydroxide(a,b)	1	1310-73-2 40 mg / kg		Not established			
		185-5	IPR - Mouse				
Potassium hydroxide (a,b)		-58-3	273 mg / kg	Not established			
· · · · ·	1	81-3 Oral - rat 41-1 3000 mg / kg		Not established			
n-Aminoethyl ethanolamine	203-8		Oral - rat	Notestablished			
	200 007 0						
2527/01/ 42	5001	00/04					
SECTION 12	' - ECOL	OGICAI	L INFORMATION				
No data are available on the adverse effects of this mate							
chemical composition of this product it is assumed that t limited quantities. However, such treatment should be e							
this mixture are classified as a Marine Pollutant.	evaluateu al		a for each specific biological syst				
SECTION 13	- DISPC	ISAL C	ONSIDERATIONS				
WASTE DISPOSAL METHOD: According to the Europ	ean Waste	Catalogue	, waste codes are application spe	cific 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 corrosive materials. Consult your local, state,							
or Federal Environmental Protection Agency before disp	posing of an	iy chemical	S.				
SECTION 14	1 - TRAΛ	ISPOR1	INFORMATION				
				le)			
PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (potassium hydroxide, sodium hydroxide) 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			Hazard Identification Num	nber (HIN): 80			
Note: Transportation information provided is for referen	ce only Cli	ient is urae	d to consult CFR 49 parts 100 - 1	77, IMDG, IATA, EU, United			
Nations TDG, and WHMIS (Canada) TDG information m							
packaging materials and methods of shipping.							

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Mitsubishi SLM - A C Activator

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing 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)

c) 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

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

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: E, D2B

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, or are otherwise in compliance with the New Substances Notification (NSN) regulations. 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	VbK Index: Not applic	able						
RISK PHRASES: R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin	SYMBOL(S) REQUIRED FOR EU LABEL Corrosive	L 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	* = Chronic Health Hazard	2 = MODERATE				
	FLAMMABILITY PHYSICAL HAZARD	0 0	0 = INSIGNIFICANT 1 = SLIGHT	3 = HIGH 4 = EXTREME				
PERSON	NAL PROTECTIVE EQUIPMENT	C	Safety Glasses, Gloves, Apron					
REVISION SUMMARY: This MSDS has been revised in the following sections: Section 14: Text Updated								
MSDS Prepared by:	ChemTel Inc. 1305 N. Florida Ave. Tampa, Florida USA 33602 (888) 255-3924 Intl. 01+ (8	13) 248-	Chem Tel NC.					
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 stipuli 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. Furthermore	are adv injury to e, vendor	ised to confirm in advance of need vendee or third persons proximately assumes no responsibility for injury	that information is current, caused by the material if caused by abnormal use of				