MATERIAL SAFETY DATA SHEET

	SE	CTION 1 - PH	RODUCT A	AND COMP	PANY IDENTIF	ICATION				
		Mitsubishi S	SLM - ACR R	leady-to-Use			larah 0, 2012			
			to Lloo		L	DATE: N	larch 9, 2012			
TRADE NAN GENERAL L		LM - ACR Ready	-10-056		Mitor	ıbishi				
	DESCRIPTION:	SEIW/SDI								
	prosive liquid, amine odor.				Imag	ing (MP	PM), Inc.			
MANUFACT	•			DATE PREPA		9, 2012				
	hi Imaging (MPM), Ir			SUPERSEDE		ary 24, 2010				
	NUMBER, STREET, P.O. B					ORMATION / Custon	aar Carriaa			
	ore Fremd Avenue	UX)		TELEPHONE						
			COUNTRY	Cham		914) 925-3200				
•					Chemtrec 24-HOUR EMERGENCY TELEPHONE NUMBER					
Rye, NY 10580 USA		USA	1-800-424-9300 01-703-527-3887 North America Toll Free International							
		SECTIO	N 2.HA7		INGREDIENT		International			
Hazardous (Components			S #	EINECS #	Hazard	RISK PHRASES			
		% (by Weight)				Symbol	(Full Text Section 15)			
	ydroxide (a,b)	0.5-2.5	1310	-73-2	215-185-5	С	R-35			
Potassium	n Hydroxide (a,b)	0.5-2.5	1310	-58-3	215-181-3	С	R-35			
n-Aminoet	hyl Ethanolamine	0.5-2.5	111-	-41-1	203-867-5	С	R-21/22, 34, 43			
(a) See Se										
• •	n the OSHA PEL or ACG	BIH TWA colum	nn indicates	ceiling limit	s, the concentrat	ion that should no	ot be exceeded during			
any part o	f the working exposure.									
NOTES:	 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 Hazard (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 (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC. 									
	· ·	SECTIC	ON 3-HAZ	ZARDS ID	ENTIFICATION	V				
EMERGENO	CY OVERVIEW									
Ingestion ma	kaline liquid, moderately toxi ay cause gastric distress and	I chemical burns	to the digestiv		on or chemical burns	s, contact with skin ma	ay cause irritation.			
	bols for this product - C. Ris		, 36/37/38							
	IAL HEALTH EFFEC	-12								
	nd irritating to upper respirate	bry tract and muc	ous membran	es.						
SKIN:				, .						
	nd irritating; chemical burns r	nay result from co	ontact; severe	irritant.						
EYES:	F. Contact with avera is painf		معينية المعرب							
	E: Contact with eyes is painf	ui and imitating a	nd will cause d	chemical burns	i.					
INGESTION			is distance at		a al sua mattina a					
	nd irritating to digestive tract;	may cause gastr	ic distress, sto	omach pains a	na vomiting.					
CARCINOG				NO	~		NO			
NTP?			NOGRAPHS?	NO	Ĺ	SHA REGULATED?				
CA	LIFORNIA, Prop.65?	NO				ESIS NOTATION?	NO			
		SECT	10N 4 - F	IRST AID	MEASURES					
	ected person to fresh air; was	sh mouth and has	sal passages v	with water repe	eatedly; if breathing o	difficulties persist see	k medical attention.			
EYES: Remove cor	ntact lenses. Immediately flu	sh eyes for 15 m	inutes in clear	running water	while holding eyelid	s open; seek medical	l attention immediately.			
SKIN: Wash contae	cted area with soap and wate	er; DO NOT atten	npt to neutraliz	ze with chemic	al agents; if irritation	persists, seek medic	al attention.			
INGESTION			•	-	.					
Drink large o immediately	quantities of water or milk; giv	ve diluted vinega	r or lemon juic	e to conscious	person; DO NOT in	duce vomiting; seek r	medical attention			

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PRODUCT CODE:	Mitsubishi S ACR	SLM - ACR R	leady-to-Use	Activator	DATE:		/larch 9, 201	2	
		ON 5-FIRE	E EIGHTIN	G MEAS			iu. e e,		
GENERAL HAZARDS:	SLONG				UNLO				
Product is corrosive. Products of combustion include compounds of carbon, hydrogen, nitrogen and oxygen, including Carbon Monoxide.									
EXTINGUISHING MEDIA:			bon, nya 232	, 11110 90	u oxygen,				
Carbon Dioxide, water, water fog, dry che	mical, chemica	I foam.						İ	
FIRE FIGHTING PROCEDURES:									
Keep containers cool with water spray to p	prevent contain	er rupture due	to steam buildu	up; CAUTION	ا - material is ،	corrosive.			
UNUSUAL FIRE AND EXPLOSION HAZA		. <u> </u>		·			-		
None									
HAZARDOUS COMBUSTION PRODUCT	-								
Smoke, fumes, oxides of carbon, oxides o									
S	SECTION 6	- ACCIDEI	NTAL REL	EASE M	EASURES	5			
STEPS TO BE TAKEN IN CASE MATERI	IAL IS RELEAS	ED OR SPILLE	ED:						
CAUTION - CORROSIVE. Wash small sp									
container for disposal. For spills in excess	s of allowable li	imits (RQ) notify							
for detailed instructions concerning reporti									
	SECTIO	ON 7-HAN	NDLING A	ND STO	RAGE				
PRECAUTIONS TO BE TAKEN IN HAND									
Keep container closed when not in use; pr									
powders and other easily oxidized organic	c materials and	reducing agent	ts. CAUTION -	material is c	orrosive. Kee	p this and oth	er chemicals of	out of reach	
of children.									
SECTION	N 8 - EXPO			PERSON					
HAZARDOUS COMPONENTS		NIOS	1			CGIH	OSHA		
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	
Sodium Hydroxide (a,b)	<u> </u> '	2C		<u> </u>	└─── '	2C			
Potassium Hydroxide (a,b)	<u> </u> '	2C	<u> </u>	<u> </u>	<u> '</u>	2C	 '		
n-Aminoethyl Ethanolamine	<u> </u>	NE		<u> </u>		NE	<u> </u>		
(b) A "C" in the OSHA PEL or ACGI	H TWA colur	nn indicates	ceiling limits	s, the conc	entration the	at should no	ot be exceed	led during	
any part of the working exposure.									
PERSONAL PROTECTION									
RESPIRATORY PROTECTION:	- 	_	-		_	-		_	
None required while threshold limits (Sect	<i>,</i> .				, if TWA excee	eds limits, NIO	SH approved	respirator	
must be worn. Refer to 29 CFR 1910.134	, or European S	Standard EN 14	9 for complete	regulations.					
PROTECTIVE GLOVES:									
Neoprene or rubber gloves with cuffs.									
EYE PROTECTION:									
Protective eyeglasses or chemical safety		to 29 CFR 191	10.133 or Euror	pean Standar	rd EN166.				
OTHER PROTECTIVE CLOTHING OR E									
Coveralls, apron, or other equipment shou	uld be worn to r	ninimize skin co	ontact.						
WORK / HYGIENIC PRACTICES:									
Practice safe workplace habits. Minimize	-			-					
SEC	CTION 9-F	PHYSICAL	AND CHE	MICAL I	PROPERT	IES			
APPEARANCE AND ODOR			VAPOR PRES	SURE					
Colorless liquid, amine odor.		ļ	17 mm Hg @ 20° C						
pH		SPECIFIC GRAVITY (WATER = 1)							
14.0 ± 0.2	1.106 ± 0.005								
BOILING POINT / BOILING RANGE	SOLUBILITY IN WATER								
212° F (100° C) Complete									
FLASH POINT									
Non-Flammable									
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)								
LEL: NA UEL:									
AUTO-IGNITION TEMPERATURE EVAPORATION RATE (WATER = 1)									
	,		11.1						
There are no known Volatile Organi	IC COmpound	ds (VUUs) in	this produce						

PRODUCT NAME: PRODUCT CODE:	Mitsubishi SLM - ACR Ready-to-Use Activator ACR				
		TABILITY AND REACTIVITY			
STABILITY	STABLE X	CONDITIONS TO AVOID:			
STABILIT	STABLE A	Extreme temperatures.			
INCOMPATIBILITY (MATERIALS TO A		Extreme temperatures.			
Strong oxidizers, strong acids, st					
HAZARDOUS DECOMPOSITION OR B	-				
		rly. In case of a fire, oxides of carbon, I	vdrocarbons, fumes, and		
smoke may be produced.		,,			
HAZARDOUS POLYMERIZATION:		CONDITIONS TO AVOID:			
Will Not Occur.		None Related to Polymerization.			
	SECTION 11 - TOX	CICOLOGICAL INFORMATION			
Hazardous Components	CAS #	LD50 of Ingredient	LC50 of Ingredient		
	EINECS #	(Specify Species and Route)	(Specify Species)		
Sodium Hydroxide (a,b)	1310-73-2	40 mg / kg	NE		
Souldin Hydroxide (a,b)	215-185-5	IPR - Mouse	NE		
	1310-58-3	273 mg / kg			
Potassium Hydroxide (a,b)	215-181-3	Oral - rat	NE		
n-Aminoethyl Ethanolamine	111-41-1	3000 mg / kg	NE		
·····	203-867-5	Oral - rat			
Do not allow undiluted and/or large of	quantities of product to ent	ter sewage systems or reach ground water	or bodies of water.		
-		COLOGICAL INFORMATION			
ingredients in this mixture are classi		SPOSAL CONSIDERATIONS			
application for which the product is u	used. Dispose of in accord) - 299" for complete wast	e application specific and should be assign ance with Local, State, and Federal Regula e disposal regulations for corrosive materia any chemicals.	ations. Refer to "40 CFR		
	SECTION 14 - T	RANSPORT INFORMATION			
		asic, inorganic,n.o.s. (Sodium Hy	droxide Potassium		
PROPER SHIPPING NAME:	Hydroxide, Ethano				
DOT HAZARD CLASS / Pack Group		IATA HAZARD CLASS / Pack Group: 8 /	111		
	3.154, .203, .241		·		
UN / NA IDENTIFICATION NUMBEI		RID/ADR Dangerous Goods Code: 8			
LABEL: CORROSIVE		-	/ 111		
HAZARD SYMBOLS:		Hazard Identification Number (HIN): 80			
CORR	DSME 8				
) TDG information manual	 Client is urged to consult CFR 49 parts 1 s for detailed regulations and exceptions content 			

MATERIAL SAFETY DATA SHEET

PRODUCT PRODUCT		Mitsubishi ACR	SLM - ACR Ready-to-Use	Activator	DATE:	March 9, 2012	
I ROBOOI			N 15 - REGULATORY	Í INFOR			
TSCA (USA - Toxic Substance Control Act): All components of this product are listed.							
SARA TITL	E III (USA - Superfund Ar	nendments ar	nd Reauthorization Act):		Immediate healt	n.	
	Acute Health:	NO	,	Chronic H	ealth:	NO	
	Fire:	NO		Sudden R	elease of Pressure	: NO	
	Reactive:	NO					
SARA 313	REPORTABLE INGREDI	ENTS:	None				
Compensa greater tha Federal Re	tion, and Liability Act (C n 24,000 pounds, based gulations 40 CFR 302.	ERCLA) has on the repor	table quantities of the ind	s for releas	ses or spills to the omponents, and in	nmental Response, e environment in quantities a agreement with US Code of	
California P	rop 65, Safe Drinking Wat	er and I oxic	Enforcement Act of 1986:		No		
CPR (Cana	adian Controlled Products	Regulations):	WHMIS Clas	ssification	s: E, D2B		
IDL (Canad	lian Ingredient Disclosure	List):	Listed.				
				,	•	product identified by CAS	
			-			tification (NSN) regulations.	
		ting Commer	cial Chemical Substances):		Referenced.		
	Quality Index:	1		VbK Index			
	RISK PHRASES:	SYMBOL	-(S) REQUIRED FOR EU, GHS L				
R34 : Causes burns. R36/37/38 : Irritating to eyes, respiratory system and skin.		C - Corrosive		>	S2 : Keep out of the reach of children. S24/25 : Avoid contact with skin and ey S28 : After contact with skin, wash immediately with plenty of soap and wa		
		SEC	TION 16 - OTHER IN	FORMAT	TION		
Legend:		020		••••••			
	American Congress of (Sovernment	Industrial Hygionists	CAS -	Chemical Abstra	ucts Service	
	÷		ercial Chemical Substances		Hazardous Materials Identification System		
IARC -	International Agency for	-		NTP-	National Toxicology Program Not Determined		
NA -	Not Available			ND-			
ND -	Not Determined			NR-	Not Reported		
NE -	Not Established				-		
NR -	Not Reported						
NIOSH -	National Institute for Oc	cupational S	afety and Health				
OSHA -	Occupational Safety and	d Health Adn	ninistration				
HMIS HAZAF	RD RATINGS		HEALTH:		2	0 = INSIGNIFICANT	
			FLAMMABILITY:		0	1 = SLIGHT	
			PHYSICAL HAZARD:		0	2 = MODERATE	
			PERSONAL PROTECTIVE EQUIPMENT:		С	3 = HIGH 4 = EXTREME	
REVISION S		logued to LISA	, Canada, EU standards 02/2	24/2010 Co	reated Section 14.2%		
REVISION S	UNINART.		, Callaua, EU Stallualus 02/2	24/2010. COI		<i>3/</i> 12.	
MSDS Prepared by: 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				ChemTe			
						nation furnished by the manufacturer of current, applicable and suited to the	
circumstances	of use. Vendor assumes no resp	onsibility for injury		mately caused	by the material if reaso	onable safety procedures are not adhere	
			d to the manufacturer of the proc			cuconable salety procedures are	