


MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION					
PRODUCT NAME: SDP-EAC II		DATE: March 2, 2009			
PRODUCT NUMBER:		DATE: March 2, 2009			
TRADE NAME: SDP-EAC II GENERAL USE: Activator for SDP ECO - SYSTEM CHEMICAL FAMILY: PRODUCT DESCRIPTION: NE					
MANUFACTURER Mitsubishi Imaging (MPM), Inc.		DATE PREPARED: March 2, 2009 SUPERSEDES: New Issue.			
ADDRESS (NUMBER, STREET, P.O. BOX) 555 Theodore Fremd Avenue (CITY, STATE AND ZIP CODE) Rye, NY 10580		TELEPHONE NUMBER FOR INFORMATION / Customer Service (914) 925-3200 24-HOUR EMERGENCY TELEPHONE NUMBER Chemtrec 1-800-424-9300 01-703-527-3887 North America Toll Free International			
		COUNTRY USA			
SECTION 2 - HAZARDOUS INGREDIENTS					
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
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	C	R-35
n-Aminoethyl Ethanolamine	0.1-2.0	111-41-1	203-867-5	C	R-21/22, 34, 43
Sodium Sulfite	1.0-10.0	7757-83-7	231-821-4	NE	NE
Triethylenetetramine-N,N,N',N'',N''',N''''-Hexaacetic Acid, Hexasodium Salt (c)	0.1-2.0	18719-04-5	Not Found	NE	NE
(a) See Section 15					
(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.					
(c) Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic acid, hexasodium salt (18719-04-5) and 3,6-Dithia-1,8-Octanetriol (5244-34-8) are not listed on the Canadian DSL or NDSL. All other components of this product identified by CAS number are listed on the DSL or NDSL. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.					
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 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					
EMERGENCY OVERVIEW					
Corrosive alkaline liquid, moderately toxic, contact with eyes or skin may cause chemical burns and severe 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 result from contact. 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 MONOGRAPHS? NO		OSHA REGULATED? NO	
CALIFORNIA, Prop.65? NO				ESIS NOTATION? NO	




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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 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, sulfur 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: Oxides of carbon, sulfur, nitrogen, hydrogen sulfide, sodium oxide, hydrocarbons, fumes, and smoke may be produced.								
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		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)		2C	—	—		2C	—	—
Potassium Hydroxide (a,b)	—	2C	—	—	—	2C	—	—
n-Aminoethyl Ethanolamine		NE				NE		
Sodium Sulfite		NE				NE		
Triethylenetetramine-N,N,N',N'',N''',N''''-Hexaacetic Acid, Hexasodium Salt (c)		NE				NE		
(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.								
PERSONAL PROTECTION								
RESPIRATORY PROTECTION: 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.								

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR NE		VAPOR PRESSURE NE	
pH 13.5 ± 0.3		SPECIFIC GRAVITY (WATER = 1) 1.083 - 1.086 at 25°C	
BOILING POINT / BOILING RANGE NR		SOLUBILITY IN WATER Complete	
FLASH POINT Non-Flammable		VISCOSITY Not Specified	
FLAMMABLE LIMITS LEL: NA UEL: NA		VAPOR DENSITY (AIR = 1) > 1	
AUTO-IGNITION TEMPERATURE ND		EVAPORATION RATE (WATER = 1) < 1	
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION There are no known Volatile Organic Compounds (VOCs) in this product.			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY		STABLE	X
CONDITIONS TO AVOID: Extreme temperatures.			
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalies.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, sulfur, hydrogen sulfide, sodium oxide, hydrocarbons, fumes, and smoke may be produced.			
HAZARDOUS POLYMERIZATION: Will Not Occur.		CONDITIONS TO AVOID: None Related to Polymerization.	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Sodium Hydroxide (a,b)	1310-73-2	40 mg / kg IPR - Mouse	NE
	215-185-5		
Potassium Hydroxide (a,b)	1310-58-3	273 mg / kg Oral - rat	NE
	215-181-3		
Sodium sulfite, anhydrous	7757-83-7	Oral, mouse: LD50 = 820 mg/kg; Oral, rat: LD50 = 3560 mg/kg;	NE
	231-821-4		
n-Aminoethyl Ethanolamine	111-41-1	3000 mg / kg Oral - rat	NE
	203-867-5		
Triethylenetetramine-N,N,N',N'',N''',N''''-Hexaacetic Acid, Hexasodium Salt	18719-04-5		NE
	NR		
(c) Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic acid, hexasodium salt (18719-04-5) and 3,6-Dithia-1,8-Octanetriol (5244-34-8) are not listed on the Canadian DSL or NDSL. All other components of this product identified by CAS number are listed on the DSL or NDSL. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.			
Do not allow undiluted and/or large quantities of product to enter sewage systems or reach ground water or bodies of water.			
SECTION 12 - ECOLOGICAL INFORMATION			
No data is 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 corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.			

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PRODUCT NAME: SDP-EAC II		DATE: March 2, 2009	
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SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: Corrosive liquid, N.O.S.			
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: 		Hazard Identification Number (HIN): 80	
<p>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.</p>			
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	
SARA 313 REPORTABLE INGREDIENTS: None		Reactive: NO	
CERCLA (USA - Comprehensive Response Compensation and Liability Act): Yes, RQ = 1000 lbs.			
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No			
CPR (Canadian Controlled Products Regulations): WHMIS Classification: E, D2B			
IDL (Canadian Ingredient Disclosure List): Listed.			
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):			
(c) Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic acid, hexasodium salt (18719-04-5) and 3,6-Dithia-1,8-Octanetriol (5244-34-8) are not listed on the Canadian DSL or NDSL. All other components of this product identified by CAS number are listed.			
EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.			
WGK Water Quality Index: 1		VbK Index: NA	
RISK PHRASES:		SYMBOL(S) REQUIRED FOR EU LABEL	
R31 Contact with acids liberates toxic gas. R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin.		 C - Corrosive	
		SAFETY PHRASES:	
		S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S28 After contact with skin, wash immediately with plenty of soap and water.	
SECTION 16 - OTHER INFORMATION			
Legend: NA-Not Applicable, NE- Not Established, NR- Not reported, ND- Not Determined.			
ACGIH - American Congress of Government Industrial Hygienists		CAS - Chemical Abstracts Service	
EINECS - European Inventory of Existing Commercial Chemical		HMIS- Hazardous Materials Identification System	
IARC - International Agency for Research on Cancer		NTP- National Toxicology Program	
NIOSH - National Institute for Occupational Safety and Health		OSHA - Occupational Safety and Health Admin.	
HMIS HAZARD RATINGS		HEALTH:	
		2	
		0 = INSIGNIFICANT	
		0	
		1 = SLIGHT	
		0	
		2 = MODERATE	
		C	
		3 = HIGH	
		0	
		4 = EXTREME	
REVISION SUMMARY: New Issue to GHS/EU protocols 3/02/2009.--JTV--			
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			
<p>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.</p>			