

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mitsubishi SLM - STR Ready-to-use Stabilizer

PRODUCT NUMBER:

DATE: April 14, 2011

TRADE NAME: Mitsubishi SLM - STR Ready-to-use Stabilizer

GENERAL USE: Ready-to-use Stabilizer for SLM/SDP

CHEMICAL FAMILY:

PRODUCT DESCRIPTION:

Clear solution, odorless.



MANUFACTURER

Mitsubishi Imaging (MPM), Inc.

DATE PREPARED: April 14, 2011

SUPERSEDES: March 4, 2010

ADDRESS (NUMBER, STREET, P.O. BOX)

555 Theodore Fremd Avenue

TELEPHONE NUMBER FOR INFORMATION / Customer Service

(914) 925-3200

(CITY, STATE AND ZIP CODE)

Rye, NY 10580

COUNTRY

USA

CHEMTREC 24-HOUR EMERGENCY TELEPHONE NUMBER

1-800-424-9300

01-703-527-3887

North America Toll Free

International

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Triethylenetetramine-N,N,N',N",N""',N""-hexaacetic acid, hexasodium salt (a)	1 - 5	18719-04-5	Not found	NC	Not Classified
Potassium Phosphate Monobasic	3 - 7	7778-77-0	231-913-4	NC	Not Classified

(a) Triethylenetetramine-N,N,N',N",N""',N""-hexaacetic acid, hexasodium salt (18719-04-5) is not listed on the Canadian 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

Slightly acidic liquid, contact may cause skin & eye irritation. Ingestion may cause gastric distress.
Hazard symbols for this product - **None**, Risk Phrases - **Not classified**

POTENTIAL HEALTH EFFECTS

INHALATION:

Breathing concentrated vapors may cause irritation of respiratory tract.

SKIN:

Prolonged contact may cause irritation.

EYES:

Contact with eyes may cause irritation.

INGESTION:

May cause gastric distress, vomiting and diarrhea.

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 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, oxides of 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.								
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
Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic acid, hexasodium salt (a)		NE				NE		
Potassium Phosphate Monobasic		NE				NE		
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.								

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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.			
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Clear solution, odorless.		VAPOR PRESSURE 17 mm Hg @ 20° C	
pH 5.8 ± 0.2		SPECIFIC GRAVITY (WATER = 1) 1.073 ± 0.005	
BOILING POINT / BOILING RANGE 212° F (100° C)		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 alkalis, strong acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, 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)
Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic acid, hexasodium salt (a)	18719-04-5	NE	NE
	Not found		
Potassium Phosphate Monobasic	7778-77-0	> 4640 mg / kg Skin - rabbit	NE
	231-913-4		
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 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.			

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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

PROPER SHIPPING NAME: **Not Regulated**

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

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.**
SARA 313 REPORTABLE INGREDIENTS: **None**
CERCLA (USA - Comprehensive Response Compensation and Liability Act): **None**
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **No**
CPR (Canadian Controlled Products Regulations): **WHMIS Classification: Not controlled.**
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**


RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
Not Classified	None	S2 : Keep out of the reach of children. S24/25 : Avoid contact with skin and eyes.

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**

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HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	1 0 0 C	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
REVISION SUMMARY:			
Revised to GHS/E.U. protocols 4/14/2011 supersedes 3/4/2010 issue.			
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			
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.			