

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SDP - α STL Solution A		DATE: December 16, 2008	
PRODUCT NUMBER:			
TRADE NAME: SDP - α STL Solution A GENERAL USE: Stabilizer for SDP - α System PRODUCT DESCRIPTION: Clear yellowish solution, odorless.			
MANUFACTURER Mitsubishi Imaging (MPM), Inc.		DATE PREPARED: December 16, 2008 SUPERSEDES: August 14, 2007	
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		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)
Nitritotri(methylphosphonic acid) solution	1 - 2	6419-19-8	229-146-5	C	R-34
Triethanolamine	7 - 13	102-71-6	203-049-8	Xi	R-36/37/38
N-Methyldiethanolamine	1 - 5	105-59-9	203-312-7	Xi	R-36
Succinic Acid	1 - 5	110-15-6	203-740-4	Xi	R-37/38, 41

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	
Mild liquid, moderately toxic, contact with eyes may cause irritation, prolonged contact with skin may cause irritation. Ingestion may cause gastric distress. Hazard symbols for this product - Xi , Risk Phrases - R36/37/38	
POTENTIAL HEALTH EFFECTS	
INHALATION: Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes.	
SKIN: Contact with skin may cause irritation, dermatitis.	
EYES: Contact with eyes may cause pain and irritation.	
INGESTION: May be irritating to digestive tract; may cause gastric distress, stomach pains.	
CARCINOGENICITY:	
NTP? NO	IARC MONOGRAPHS? NO
CALIFORNIA, Prop.65? NO	OSHA REGULATED? NO
	ESIS NOTATION? NO

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention.
EYES: Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.
SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, see medical attention.
INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
 Product is not considered flammable or combustible. 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.

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:
 Small spills - wash to sanitary sewer with plenty of water. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water. Do not discharge into lakes, ponds, streams or public waters.

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/m ³	STEL ppm	STEL mg/m ³	TLV/TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Nitritoltri(methylphosphonic acid) solution		NE				NE		
Triethanolamine		-		-		5		-
N-Methyldiethanolamine		NE				NE		
Succinic Acid		NE				NE		

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds standard workplace 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 Clear yellowish solution, odorless.	VAPOR PRESSURE 17 mm Hg @ 20° C
pH 7.4 ± 0.2	SPECIFIC GRAVITY (WATER = 1) 1.060 ± 0.005
BOILING POINT / BOILING RANGE 212° F (100° C)	SOLUBILITY IN WATER Complete
FLASH POINT Non-flammable	VISCOSITY Like that of water.
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 VOCs (Volatile Organic Compounds) in this preparation.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE X	CONDITIONS TO AVOID: Extreme temperatures.
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INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong oxidizers, 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.
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SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Nitrioltri(methylphosphonic acid) solution	6419-19-8	NE	NE
	229-146-5		
Triethanolamine	102-71-6	2200 mg / kg Oral - Rabbit	ND
	203-049-8		
N-Methyldiethanolamine	105-59-9	1945 mg / kg Oral - Rat	NE
	203-312-7		
Succinic Acid	110-15-6	2260 mg / kg Oral - Rat	NE
	203-740-4		

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.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose of in accordance with Local, State, and Federal Regulations; do not discharge into lakes, ponds, streams or public waters. Product is classified as non-hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. 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.

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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.

Acute Health: **NO** Chronic Health: **NO** Reactive: **NO**
 Fire: **NO** Sudden Release of Pressure: **NO**

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: None

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): Listed.

EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.

WGK Water Quality Index: 1 **VbK Index:** NA

RISK PHRASES: R36/37/38 : Irritating to eyes, respiratory system.	SYMBOL(S) REQUIRED FOR EU LABEL  Xi - Irritating	SAFETY PHRASES: S2 : Keep out of the reach of children. S24/25 : Avoid contact with skin and eyes.
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SECTION 16 - OTHER INFORMATION

Legend:

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
NA - Not Available	ND- Not Determined
ND - Not Determined	NR- Not Reported
NIOSH - National Institute for Occupational Safety and Health	
OSHA - Occupational Safety and Health Administration	

HMIS HAZARD RATINGS	HEALTH: 1 FLAMMABILITY: 0 PHYSICAL HAZARD: 0 PERSONAL PROTECTIVE EQUIPMENT: C	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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REVISION SUMMARY: Revised to GHS/E.U. protocols 12/16/2008 supersedes 8/14/2007 issue.

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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.