

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SDP - α STL Solution B		DATE: December 16, 2008	
PRODUCT NUMBER:		DATE: December 16, 2008	
TRADE NAME: SDP - α STL Solution B GENERAL USE: Stabilizer for SDP - α System PRODUCT DESCRIPTION: Clear yellowish liquid, yeast like odor.			
MANUFACTURER: Mitsubishi Imaging (MPM), Inc.		DATE PREPARED: December 16, 2008	
ADDRESS (NUMBER, STREET, P.O. BOX): 555 Theodore Fremd Avenue		SUPERSEDES: August 14, 2007	
(CITY, STATE AND ZIP CODE): Rye, NY 10580		TELEPHONE NUMBER FOR INFORMATION / Customer Service: (914) 925-3200	
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)
Protease Bacillus licheniformis (a)	3 - 7	9014-01-1	232-752-2	Xn	R-37/38, 41, 42
1,2-Propylene Glycol (b)	30 - 50	57-55-6	200-338-0	NC	Not Classified

(a) Protease Bacillus licheniformis (9014-01-1) is 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.

(b) This product is not considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, certain regulatory agencies, government agencies or states may require the listing of this product or the product is listed only for information.

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 alkaline liquid, may be harmful if swallowed, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress. Hazard symbols for this product - **Xn**, Phrases - **R 37/38, 41, 42**

POTENTIAL HEALTH EFFECTS

INHALATION:
Inhalation of mists or vapors may cause irritation to upper respiratory tract and mucous membranes, may cause severe irritation of the lungs.

SKIN:
Skin sensitizer, contact with the skin may cause irritation. Repeated and / or prolonged contact with the skin may cause allergic reaction and / or sensitization.

EYES:
This product is an eye irritant. Contact with the eyes will cause irritation.

INGESTION:
May be harmful if swallowed. May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? NO		ESIS NOTATION? NO

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove affected person to fresh air; if symptoms persist seek medical attention.

EYES:
Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; 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, seek medical attention.

INGESTION:
Give two glasses of water for dilution; Induce vomiting by sticking fingers down throat; 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 irritating to skin, eyes and respiratory tract. Products of combustion include compounds of carbon, hydrogen 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; contact with material may cause irritation to skin, eyes and respiratory tract.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None

HAZARDOUS COMBUSTION PRODUCTS:
 Smoke, fumes or vapors, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Evacuate all non-trained personnel. Ventilate area. Confine spill, soak up with approved absorbent, shovel product into approved container for disposal by licensed facility. 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/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Protease Bacillus licheniformis (a)		0.00006				0.00006		
1,2-Propylene Glycol (b)		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, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION:
 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 prevent skin contact, safety eyewash station nearby.

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 yellowish liquid, yeast like odor.	VAPOR PRESSURE 17 mm Hg @ 20° C
pH 5.5 - 6.5	SPECIFIC GRAVITY (WATER = 1) 1.1
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 Volatile Organic Compounds (VOCs) in this product.

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SECTION 10 - STABILITY AND REACTIVITY			
STABILITY	STABLE	X	CONDITIONS TO AVOID: Extreme temperatures.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong oxidizers.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, oxides of nitrogen, hydrocarbons, fumes or vapors, 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)
Protease Bacillus licheniformis (a)	9014-01-1	2,000 mg / kg Oral - Rat	NE
	232-752-2		
1,2-Propylene Glycol (b)	57-55-6	20,000 mg / kg Oral - Rat	NE
	200-338-0		
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.			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors in a disposal container creating a dangerous environment. 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. Do not flush to sanitary sewer or waterway. 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.			
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, delayed 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: D2B	
IDL (Canadian Ingredient Disclosure List):		Listed.	
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):		(a) Protease Bacillus licheniformis (9014-01-1) is 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: R37/38 : Irritating to respiratory system and skin. R41 : Risk of serious damage to the eyes. R42 : May cause sensitization by inhalation.	SYMBOL(S) REQUIRED FOR EU LABEL  Xn - Harmful	SAFETY PHRASES: S2 : Keep out of the reach of children. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36 : Wear suitable protective clothing.	

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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 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**

HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	2 0 0 B	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.