#### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Mitsubishi SDP -α Gum

PRODUCT NUMBER: SDP -α Gum DATE: December 16, 2008

TRADE NAME: Mitsubishi SDP -α Gum

GENERAL USE: Finishing solution for SDP -α System

CHEMICAL FAMILY: N/A
PRODUCT DESCRIPTION:
Clear solution, slight amine odor.

Mitsubishi Imaging (MPM), Inc.

MANUFACTURER DATE PREPARED: December 16, 2008

Mitsubishi Imaging (MPM), Inc. SUPERSEDES: August 14, 2007

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

TELEPHONE NUMBER FOR INFORMATION / Customer Service

555 Theodore Fremd Avenue (914) 925-3200

(CITY, STATE AND ZIP CODE) COUNTRY

Rye, NY 10580 USA 1-800-424-9300

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)						
Monoammonium Phosphate	3 - 7	7722-76-1	231-764-5	Xi	36/37						
Phosphoric Acid (a)	1 - 5	7664-38-2	231-633-2	С	R-22, 34						
Sodium Nitrate	1 - 5	7631-99-4	231-554-3	O, Xn	R-8, 22, 36/37/38						
2-(Methylamino) Ethanol	1 - 5	109-83-1	203-710-0	С	R-21/22, 34						

#### (a) See Section 15

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 will 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

PRODUCT NAME: Mitsubishi SDP -α Gum

PRODUCT NUMBER: SDP -α Gum DATE: December 16, 2008

## 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

#### 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 and 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			
Monoammonium Phosphate		NE				NE					
Phosphoric Acid (a)	1	1	-	3	_	1	_	3			
Sodium Nitrate		NE				NE					
2-(Methylamino) Ethanol		NE				NE					

#### (a) See Section 15

#### PERSONAL PROTECTION

RESPIRATORY PROTECTION:

None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator

PROTECTIVE GLOVES:

Neoprene gloves, butyl or nitrile 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, safety eyewash station nearby.

WORK / HYGIENIC PRACTICES:

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

Mitsubishi SDP -α Gum PRODUCT NAME: PRODUCT NUMBER: **December 16, 2008** SDP -α Gum DATE: SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES APPEARANCE AND ODOR VAPOR PRESSURE Clear solution, slight amine odor. 17 mm Hg @ 20° C рΗ SPECIFIC GRAVITY (WATER = 1) 1.092 ± 0.005 @ 25° C 5.2 ± 0.2 @ 25° C BOILING POINT / BOILING RANGE SOLUBILITY IN WATER 212° F (100° C) Complete FLASH POINT VISCOSITY Non-Flammable **Not Specified** FLAMMABLE LIMITS VAPOR DENSITY (AIR = 1) LEL: NA UEL: NA AUTO-IGNITION TEMPERATURE EVAPORATION RATE (WATER = 1) VOLATILE ORGANIC COMPOUND (VOC) INFORMATION There are no known VOCs (Volatile Organic Compounds) in this formulation. SECTION 10 - STABILITY AND REACTIVITY CONDITIONS TO AVOID: STABILITY STABLE Χ Extreme temperatures. INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalies, strong acids. HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, nitrogen, hydrocarbons, fumes, HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID: Will Not Occur. None Related to Polymerization. SECTION 11 - TOXICOLOGICAL INFORMATION LD50 of Ingredient CAS# LC50 of Ingredient **Hazardous Components EINECS#** (Specify Species and Route) (Specify Species) 7722-76-1 > 2000 mg / kg ΝE Monoammonium Phosphate 231-764-5 Oral - Rat 7664-38-2 1530 mg / kg > 850 mg / m3 Phosphoric Acid (a) 231-633-2 Oral - Rat Inhalation - Rat 7631-99-4 1267 mg / kg **Sodium Nitrate** ΝE 231-554-3 Oral - Rat 109-83-1 1391 mg / kg 2-(Methylamino) Ethanol ΝE 203-710-0 Oral - Rat (a) See Section 15 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 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 **SECTION 14 - TRANSPORT INFORMATION** PROPER SHIPPING NAME: Not Regulated DOT HAZARD CLASS / Pack Group: Not Regulated IATA HAZARD CLASS / Pack Group: Not Regulated REFERENCE: IMDG HAZARD CLASS: **Not Regulated** UN / NA IDENTIFICATION NUMBER: RID/ADR Dangerous Goods Code: **Not Regulated** None LABEL: None Required UN TDG Class / Pack Group: Not Regulated 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.

PRODUCT NAME: Mitsubishi SDP -α Gum

PRODUCT NUMBER: SDP -α Gum DATE: December 16, 2008

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): None

Acute Health: NO Chronic Health: NO Sudden Release of Pressure: NO

Reactive: NO

SARA 313 REPORTABLE INGREDIENTS: None

CERCLA (USA - Comprehensive Response Compensation and Liability Act): The Comprehensive Environmental

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: None CPR (Canadian Controlled Products Regulations): WHMIS Classification: D2B

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: 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

HMIS HAZARD RATINGS

HEALTH:

FLAMMABILITY:

PHYSICAL HAZARD:

PERSONAL PROTECTIVE EQUIPMENT:

1 0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

C 3 = HIGH

4 = EXTREME

## 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.