






SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier** **SLM-OD50 Fountain Solution**
 GHS Product Identifier **SLM-OD50 Fountain Solution**
 Product Code **OD-50**
 Chemical Name Mixture
 Trade name **SLM-OD50 Fountain Solution**
 CAS No. Mixture
 EINECS No. Mixture
 REACH Registration No. Not available
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Identified use(s) Users are recommended to seek further advice.
 Uses advised against Users are recommended to seek further advice.
- 1.3 Supplier's details**
 Company Identification **Mitsubishi Imaging (MPM), Inc.**
 Address **555 Theodore Fremd Avenue, Rye, NY 10580 USA**
 Telephone **(914) 925-3200**
 E-Mail (competent person)
- 1.4 Emergency telephone number – ChemTrec**
Emergency Phone No. (800) 424-9300 (US/Canada), +01 (703) 527-3887 (Elsewhere)


SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 Regulation (EC) No. 1272/2008 (CLP) - (3.2/2, 3.3/2) Skin Irritant, Eye Irritant**
- 2.1.2 Directive 67/548/EEC & Directive 1999/45/EC –Slightly acidic liquid, prolonged contact may cause skin & eye irritation. Ingestion may cause gastric distress.**
 Hazard symbols for this product - **Xi**, Risk Phrases –**R36/38**.
- 2.2 Label elements**
- 2.2.1 Label elements** **According to Regulation (EC) No. 1272/2008 (CLP)**
 GHS Product Identifier (EU)
- Hazard pictogram(s) 
- Signal word(s) **Warning**
- Hazard statement(s) H315: Causes skin irritation.
 H319: Causes serious eye irritation.
- Precautionary Statement(s) P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 2.2.2 Label elements** **According to Directive 67/548/EEC & Directive 1999/45/EC**
 Hazard Symbol 
- Risk Phrases R36/38: Irritating to eyes and skin.
- Safety Phrases S24/25: Avoid contact with skin and eyes.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 2.3 Other hazards** **Non-Hazardous under OSHA Hazard Communication Standard (USA)**
 HMIS: Health-0, Flammability- 0 Reactivity – 0
WHMIS Classification (Canada): D2B- Materials having other toxic effects.
 GHS Classification (Canada):Irritant (Eyes, Skin).
 H315: Causes skin irritation. 
 H320: Causes eye irritation 
- 2.4 Additional Information**
 Potential Health Effects
- Inhalation May cause irritation of respiratory tract.
 Eye Contact Causes eye irritation.
 Skin Contact May cause irritation
 Ingestion May cause irritation to the gastrointestinal tract.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**EC Classification No. 1272/2008/EC**

Hazardous ingredient(s)	% W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)	
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	10 - 40	9038-95-3	Not Referenced	NR	None	None
Propionic Acid	0.5 - 1.5	79-09-4	201-176-3	NR		3.2/1A, H315, H319

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	% W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases	
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	10 - 40	9038-95-3	Not Referenced	NR	None	None
Propionic Acid	0.5 - 1.5	79-09-4	201-176-3	NR		C: R34

3.3 Additional Information

- For full text of H/P phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain medical attention.

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion Do not induce vomiting. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Acute: Liquid product is irritant to eyes and skin.
Delayed and chronic effects: None.

4.3 Indication of the immediate medical attention and special treatment needed

Exposure by any route should be treated symptomatically by medical personnel..

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing Media Non-combustible.
Unsuitable Extinguishing Media None

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose accordingly. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See Also Section 7, 8, 13.

6.5 Additional Information

None

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Wear suitable protective clothing and eye/face protection. Avoid contact with eyes.
- 7.2 Conditions for safe storage, including any incompatibilities** Store at ambient temperatures. Store in a closed container. Store in a well-ventilated place. Keep/store away from: Strong acids, Strong bases and oxidizers.
Storage Temperature Ambient temperatures.
Storage Life Not available
Incompatible materials Strong oxidizing agents, Strong acids/bases.
- 7.3 Specific end use(s)** Consult the supplier.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	9038-95-3	NE	NE	NE	NE	None
		NE	NE	NE	NE	
Propionic Acid	79-09-4	10	30	15	45	ACGIH
		10	30	15	45	OSHA

8.1.2 Biological limit value

Biological limit values are not available for this product.

8.1.3 PNECs and DNELs

No PNECs and/or DNELs are available for this product.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

8.2.2 Personal protection equipment



Eye/face protection

Safety spectacles.



Skin protection
(Hand protection/ Other)

Plastic or synthetic rubber gloves. Wear chemical resistant apron.



Respiratory protection

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Thermal hazards

None

8.2.3 Environmental Exposure Controls

Adequate ventilation must be used. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear Liquid	Colour	Blue
Odour	Slight	Odour Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available	Boiling point/boiling range (°C):	212°F, 100°C
Flash Point (°C)	Not Flammable	Explosive limit ranges	Not available
Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
Explosive properties	Not available	Oxidising properties	Not available
Flammability (solid, gas)	Not available	pH (Value)	4.0 ±0.1
Evaporation rate	<1	Vapour Pressure (mm Hg)	17 mm Hg @ 20°C
Vapour Density (Air=1)	>1	Density (g/ml)	1.028±0.005
Solubility (Water)	Complete	Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available	Viscosity (mPa.s)	Not available

9.2 Other information

VOC=0.0% EPA Method 24.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	None
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Can react violently if in contact with - strong acids/bases, oxidizers.
10.4 Conditions to avoid	Extreme temperatures
10.5 Incompatible materials	Strong oxidizers, strong acids, strong bases
10.6 Hazardous Decomposition Product(s)	Oxides of carbon, hydrocarbons, fumes, smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	CAS No.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)
Poly(ethylene glycol-ran-propylene glycol) monobutyl ether	9038-95-3	12,792 mg/kg	LD50 Dermal - rabbit - > 20,800 mg/kg
Propionic Acid	79-09-4	2600 mg / kg	> 4.9 mg / l / 4H

11.1 Information on toxicological effects**11.1.2 Mixtures**

Acute toxicity	No data
Irritation	Eye irritant, Mild skin irritant.
Corrosivity	Slight
Sensitisation	Slight
Repeated dose toxicity	None
Carcinogenicity	Not to be expected.
Mutagenicity	Not to be expected.
Toxicity for reproduction	None

11.2 Other information

None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data.
12.2 Persistence and degradability	No data.
12.3 Bioaccumulative potential	No data.
12.4 Mobility in soil	No data.
12.5 Results of PBT and vPvB assessment	No data.
12.6 Other adverse effects	No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Do not empty into drains; dispose of this material and its container in a safe way. Send to a licensed recycler, reclaimer or incinerator. Avoid release to the environment. Decontaminate empty containers before recycling.
13.2 Additional Information	None

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) (a)(c)

UN number	Not hazardous for transport
Proper Shipping Name	Not hazardous for transport
Transport hazard class(es)	Not hazardous for transport
Packing Group	Not hazardous for transport
Hazard label(s)	Not hazardous for transport
Environmental hazards	Not hazardous for transport
Special precautions for user	Not hazardous for transport

Land transport (Within USA) (b)(c)

UN number	Not hazardous for transport
Proper Shipping Name	Not hazardous for transport
Transport hazard class(es)	Not hazardous for transport
Packing Group	Not hazardous for transport
Hazard label(s)	Not hazardous for transport
Environmental hazards	Not hazardous for transport
Special precautions for user	Not hazardous for transport

Sea transport (IMDG) (a)(c)

UN number	Not hazardous for transport
Proper Shipping Name	Not hazardous for transport
Transport hazard class(es)	Not hazardous for transport
Packing Group	Not hazardous for transport
Marine Pollutant	Not hazardous for transport
Special precautions for user	Not hazardous for transport

Air transport (ICAO/IATA) (a)(c)

UN number	Not hazardous for transport
Proper Shipping Name	Not hazardous for transport
Transport hazard class(es)	Not hazardous for transport
Packing Group	Not hazardous for transport
Environmental hazards	Not hazardous for transport
Special precautions for user	Not hazardous for transport

(a)– Consult with transport provider.

(b)– ORM-D may be applicable within the USA for package sizes less than 30kg.

(c)– Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU regulations**

Authorisations and/or restrictions on use	Consult the supplier.
European Union (EINECS/ELINCS)	None.
WGK number	1

15.1.2 National regulations**USA**

TSCA (Toxic Substance Control Act)	All chemicals listed
SARA 311/312 - Hazard Categories	Acute Health Hazard.
SARA 302 - Extremely Hazardous Substances	Listed – None.
SARA 313 - Toxic Chemicals	Listed – None
CERCLA (Comprehensive Environmental Response Compensation and Liability Act)	Listed- None
CAA (Clean Air Act 1990)	Listed – None.
CWA (Clean Water Act)	Listed – None.
State Right to Know Lists	Listed – MA, NJ, PA (Propionic acid)
Proposition 65 (California)	Listed – None.

Canada

WHMIS Classification	D2B – Material having other toxic effects.
Canada (DSL/NDL)	Listed - DSL
Canada Ingredient Disclosure List (CIDL)	Listed on Canada's IDL.

15.2 Chemical Safety Assessment: Irritant (to eyes).**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMIS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity
LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
LEL	lower explosive limit	UEL	upper explosive limit
mg	milligram	WES	Workplace Exposure Standard (New Zealand)
mL	milliliter	WHMIS	Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicologic Emergencies*, Manufacturer Information

Risk Phrases and Safety Phrases

R34: Causes burns.

R36/38: Irritating to eyes and skin.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water.

Hazard statement(s) and Precautionary statement(s)

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H320: Causes eye irritation

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Training advice: None

Additional Information: None

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. ChemTel Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. ChemTel Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.