





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

- 1.1 Product identifier**  
 GHS Product Identifier SLM-OA2 Fountain Solution Additive  
 Product Code SLM-OA2  
 Chemical Name Mixture  
 Trade name SLM-OA2 Fountain Solution Additive  
 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) – Acute Toxicity 4, ( 3.1/4,)**  
**2.1.2 Directive 67/548/EEC & Directive 1999/45/EC –Harmful if swallowed**  
 Hazard symbols for this product - Xn, Xi Risk Phrases –R22 , R36/37
- 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) H302: Harmful if swallowed  
 H319: Causes serious eye irritation  
 H335: May cause respiratory irritation.  
 Precautionary Statement(s) P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTRE or doctor/physician.
- 2.2.2 Label elements According to Directive 67/548/EEC & Directive 1999/45/EC**  
 Hazard Symbol   
 Risk Phrases R22: Harmful if swallowed.  
 R36/37: Irritating to eyes and respiratory system.  
 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.  
 S28: After contact with skin, wash immediately with plenty of water.  
 S46: If swallowed, seek medical advice immediately and show this container or label.
- 2.3 Other hazards Hazardous under OSHA Hazard Communication Standard (USA)**  
 HMIS: Health-2\* (Chronic), Flammability- 0 Reactivity – 0  
**GHS Classification (USA):**  
 H302: Harmful if swallowed.  
 H320: Causes eye irritation.  
 H335: May cause respiratory irritation. 

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P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTRE or doctor/physician.

**WHMIS Classification (Canada): D2B - Toxic material causing other toxic effects.**

H302: Harmful if swallowed.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTRE or doctor/physician.



### 2.4 Additional Information

#### Potential Health Effects

Inhalation	May cause irritation.
Eye Contact	Causes moderate eye irritation.
Skin Contact	May cause irritation. Repeated or prolonged skin overexposure may cause dermatitis. Due to the colorants, skin contact may discolor contaminated areas.
Ingestion	May cause irritation to the gastrointestinal tract. If large quantities are ingested, additional symptoms 12 to 72 hours after ingestion may include rapid breathing and heart rate, pain, skin discoloration, and generalized edema with altered urine output to include possible blood in urine or calculi. rapid heartbeat, rapid breathing. All ingestions of this product require medical intervention.

## 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)
Ethylene Glycol	3-7	107-21-1	246-473-3	NR	3.1/4, H302
Amorphous silica	10-30	7631-86-9	7631-86-9	NR	3.3/2, 3.8/3, H319, H335

### EC Classification No. 67/548/EEC

Hazardous ingredient(s)	% W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Ethylene Glycol	3-7	107-21-1	Not Referenced	NR	Xn, R22
Amorphous silica	10 - 30	7631-86-9	7631-86-9	NR	Xi, R36/37

**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. Give water to drink. 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:** Nervous system and kidney damage, dermatitis.

- 4.3 Indication of the immediate medical attention and special treatment needed**      Ingestions require careful patient monitoring to avoid metabolic and/or respiratory imbalances concurrent with or subsequent to initial presentation. The American Academy of Clinical Toxicology has published treatment guidelines for ethylene glycol poisoning. Fomepizole and ethanol are antidotal to ethylene glycol toxicity, and hemodialysis may be of benefit.

### 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**      All employees who handle this material should be trained to handle it safely. Wear suitable protective clothing and eye/face protection. Avoid contact with eyes. Avoid ingestion.
- 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, and oxidizers.  
 Storage Temperature      Ambient temperatures.  
 Storage Life      Not available  
 Incompatible materials      Strong oxidizing agents, Strong acids.
- 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Ethylene Glycol	107-21-1	50	125	NE	NE	OSHA
	246-473-3	NE	100	NE	NE	ACGIH
Amorphous silica	7631-86-9	NE	NE	NE	NE	OSHA PEL
	231-545-4	NE	NE	NE	NE	ACGIH

##### 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 glasses.



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	Opaque White Liquid	Colour	White
Odour	Odorless	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)	8.75±0.25
Evaporation rate	<1	Vapour Pressure (mm Hg)	17mmHg @ 20°C
Vapour Density (Air=1)	>1	Density (g/ml)	1.130 ±0.01
Solubility (Water)	Complete	Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available	Viscosity (mPa.s)	Not available

**9.2 Other information** Volatile Organic Compound (VOC) Content: 105 g / L per EPA Method 24 (does not include water). VOC weight % ; <10 % (calc) per California CARB methodology.**SECTION 10: STABILITY AND REACTIVITY**

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

**SECTION 11: TOXICOLOGICAL INFORMATION**

Ingredient	CAS No.	LD <sub>50</sub> (Oral, Rat)	LC <sub>50</sub> (Inhalation, Rat)
Ethylene Glycol	107-21-1	4700 mg/kg	LD <sub>50</sub> (Dermal, Rabbit) - 10,626 mg/kg
Amorphous silica	7631-86-9	NE	Draize test, rabbit eye: 25 mg/24H Mild

**11.1 Information on toxicological effects****11.1.2 Mixtures**

Acute toxicity	May cause irritation to the gastrointestinal tract. If large quantities are ingested, additional symptoms 12 to 72 hours after ingestion may include rapid breathing and heart rate, pain, skin discoloration, and generalized edema with altered urine output to include possible blood in urine or calculi. rapid heartbeat, rapid breathing. All ingestions of this product require medical intervention
Irritation	Eye irritant, Mild skin irritant.
Corrosivity	None expected.
Sensitisation	No data.
Repeated dose toxicity	Repeated ingestions of this product may cause kidney and liver damage.
Carcinogenicity	None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, NTP or OSHA.
Mutagenicity	Not to be expected.

Toxicity for reproduction Ethylene glycol should be considered harmful to fetal health.

**11.2 Other information** None

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	Harmful in aquatic environments.
<b>12.2 Persistence and degradability</b>	Not persistent.
<b>12.3 Bioaccumulative potential</b>	Does not bioaccumulate. Bioconcentration factor (BCF): 0.60.
<b>12.4 Mobility in soil</b>	Based on the components of this product, it is expected to have high mobility in soil.
<b>12.5 Results of PBT and vPvB assessment</b>	No data.
<b>12.6 Other adverse effects</b>	Environmental hazards cannot be excluded by inappropriate handling or disposal.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	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.
<b>13.2 Additional Information</b>	Ethylene Glycol: Indicates that the USA Resource Conservation and Recovery Act (RCRA) has determined the waste for this chemical is listed as hazardous and must be handled according to regulations in 40CFR 260-281.

**SECTION 14: TRANSPORT INFORMATION**

**Land transport (ADR/RID) (a)(b)**

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)(b)**

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

**Land transport (Within USA) (a)(b)**

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

**Air transport (ICAO/IATA) (a)(b)**

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)– 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 European Union (EINECS/ELINCS)	Consult the supplier.
WGK number	Referenced
	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- Ethylene Glycol = 5000 lb (2268 kg) fianl RQ.
CAA (Clean Air Act 1990)	Listed – None.
CWA (Clean Water Act)	Listed – None.
State Right to Know Lists	Listed – MA, MN NJ, PA (Ethylene glycol

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Proposition 65 (California)

### Canada

WHMIS Classification

Canada (DSL/NDSL)

Canada Ingredient Disclosure List (CIDL)

& Amorphous silica)

Listed - None

D2B –Toxic material causing other toxic effects.

Listed - DSL.

Listed on Canada's IDL.

### 15.2 Chemical Safety Assessment: Harmful if swallowed, Irritant (eyes and respiratory system).

## 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

R22 Harmful if swallowed.

R36/37: Irritating to eyes and respiratory system.

### Hazard statement(s)

H302: Harmful if swallowed

H319: Causes serious eye irritation.

H320: Causes eye irritation

H335: May cause respiratory irritation.

**SAFETY DATA SHEET**  
**SLM-OA2 Fountain Solution Additive****Training advice:** None**Additional Information: Ingredient names for labeling purposes (CAS #)** - Water (7732-18-5), Ethylene glycol (107-21-1), Amorphous silica dispersion (7631-86-9)

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