

Poly/LEM Fixative Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 04/30/2021 Supersedes: 02/19/2002 Version: 1.0

1.1. identification       IMiture         Product form       I: PolyLEM Fixative         Product code       I: PolyLEM Fixative         Product code       I: 18854         Formula       I: no data         1.2. Recommended use and restrictions or use       Image regent, Manufacture of substances         1.3. Suppler       Suppler         Suppler       Image regent, Manufacture of substances         1.3. Suppler       Suppler         Recommended use       Image regent, Manufacture of substances         1.3. Suppler       Suppler         Suppler       Suppler         Recommended use       Image regent, Manufacture of substances         1.4. Energency telephone number       Energency telephone number         StectroNX : Hazard (S) (Idontification       Eauses skin initation         StectroNX : Hazard (S) (Idontification Category 2       Causes skin initation         Serious eye damagerey initiation Category 2       Causes skin initation         Serious eye damagerey initiation Category 4       Eauses skin initation         Serious eye damagerey initiation Category 2       Causes skin initation         Causes skin initation       Causes skin initation         Causer skin initation       Causes skin initation         Careares skin initation       Causes ski	SECTION 1: Identification	
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Warrington, PA 18976 - United States Tr1 215 330 484 - F + 1215 330 484 - F + 1215 330 2014 Info@polysciences.com - www.polysciences.com <b>1.1. Emergency lelphone number</b> Emergency number : 24-hour emergency phone number ChemTel 1-800-255-3924 <b>SECTION 2: Hazard(s) Identification</b> <b>2.1. Classification of the substance or mixture</b> <b>GHS US classification</b> Acute toxicity (inhalation) Category 4 Skin corrosolinvittation Category 2 Serious eye damageleye inflation Category 2 Serious eye damageleye inflation (Category 2 Serious eye damageleye inflation Category 2 <b>2.2. GHS Label elements, including precautionary statements</b> <b>GHS US labeling</b> Hazard pictograms (GHS US) : Warning Hazard statements (GHS US) : Causes skin inflation Causes skin inflation Causes skin inflation Causes skin inflation Causes skin inflation Causes eye inflati	Supplier Polysciences	
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Name	Product identifier	%	GHS US classification
Formaldehyde	(CAS-No.) 50-00-0	0 – 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401
Sodium Phosphate Monobasic Monohydrate	(CAS-No.) 10049-21-5	0 – 5	Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	5
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.
4.2. Most important symptoms and e	effects (acute and delayed)
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation.
Symptoms/effects after eye contact	: Mild eye irritation.
4.3. Immediate medical attention and	d special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measure	es
5.1. Suitable (and unsuitable) exting	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from th	e chemical
Hazardous decomposition products in case fire	of : Toxic fumes may be released.
5.3. Special protective equipment an	d precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release m	leasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify aut	norities if product enters sewers or public waters.
6.3. Methods and material for contai	nment and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2 Conditions for safe storage including	any incompatibilities

### Storage conditions

: Store at room temp. Store locked up. Store in a well-ventilated place. Keep cool.

### **SECTION 8: Exposure controls/personal protection**

8.1.	Control parameters
P	oly/LEM Fixative
Ν	o additional information available
F	ormaldehyde (50-00-0)
Ν	o additional information available
S	odium Phosphate Monobasic Monohydrate (10049-21-5)
Ν	o additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.

: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : clear colorless liquid formaldehyde odor. Color : Colorless Odor : Mixture contains one or more component(s) which have the following odour: Odor threshold : No data available : ≥2 pН 11/13/2023 EN (English US) 3/7

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Melting point	: no data
Freezing point	: No data available
Boiling point	: 206
Flash point	: 150
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 17 mm Hg @ 25 C.
Relative vapor density at 20°C	: 1.04
Relative density	: No data available
Solubility	: Water: 100 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	SECTION 10: Stability and reactivity			
10.1. Reactivity				
The product is non-reactive under normal conditions of use, storage and transport.				
0.2. Chemical stability				
Stable under normal conditions.	Stable under normal conditions.			
10.3. Possibility of hazardous reactions	10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal condition	tions of use.			
10.4. Conditions to avoid				
None under recommended storage and handling co	onditions (see section 7).			
10.5. Incompatible materials	10.5. Incompatible materials			
No additional information available				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use, hazard	dous decomposition products should not be produced.			
SECTION 11: Toxicological information				
<b>SECTION 11: Toxicological information</b>	n			
SECTION 11: Toxicological information 11.1. Information on toxicological effects	n			
	n : Not classified			
11.1. Information on toxicological effects				
11.1.         Information on toxicological effects           Acute toxicity (oral)         Inclusion	: Not classified			
11.1.         Information on toxicological effects           Acute toxicity (oral)         Acute toxicity (dermal)	: Not classified : Not classified			
11.1.         Information on toxicological effects           Acute toxicity (oral)         Acute toxicity (dermal)           Acute toxicity (inhalation)         Acute toxicity (inhalation)	: Not classified : Not classified : Harmful if inhaled. 800 μg/kg mg/ 9100 mg/Kg			
11.1.       Information on toxicological effects         Acute toxicity (oral)       Acute toxicity (dermal)         Acute toxicity (inhalation)       Poly/LEM Fixative	: Not classified : Not classified : Harmful if inhaled.			
Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (dermal)         Acute toxicity (inhalation)         Poly/LEM Fixative         LD50 oral rat	: Not classified : Not classified : Harmful if inhaled. 800 μg/kg mg/ 9100 mg/Kg			
Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (dermal)         Acute toxicity (inhalation)         Poly/LEM Fixative         LD50 oral rat         LD50 dermal rabbit         ATE US (gases)         ATE US (vapors)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Harmful if inhaled.</li> </ul> 800 µg/kg mg/ 9100 mg/Kg 270 ml/kg mg/ 15840 mg/Kg 4500 ppmV/4h 11 mg/l/4h			
Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (dermal)         Acute toxicity (inhalation)         Poly/LEM Fixative         LD50 oral rat         LD50 dermal rabbit         ATE US (gases)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Harmful if inhaled.</li> <li>800 μg/kg mg/ 9100 mg/Kg</li> <li>270 ml/kg mg/ 15840 mg/Kg</li> <li>4500 ppmV/4h</li> </ul>			
Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (dermal)         Acute toxicity (inhalation)         Poly/LEM Fixative         LD50 oral rat         LD50 dermal rabbit         ATE US (gases)         ATE US (vapors)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Harmful if inhaled.</li> </ul> 800 µg/kg mg/ 9100 mg/Kg 270 ml/kg mg/ 15840 mg/Kg 4500 ppmV/4h 11 mg/l/4h 1.5 mg/l/4h			
Information on toxicological effects         Acute toxicity (oral)         Acute toxicity (dermal)         Acute toxicity (inhalation)         Poly/LEM Fixative         LD50 oral rat         LD50 dermal rabbit         ATE US (gases)         ATE US (dust, mist)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Harmful if inhaled.</li> </ul> 800 µg/kg mg/ 9100 mg/Kg 270 ml/kg mg/ 15840 mg/Kg 4500 ppmV/4h 11 mg/l/4h 1.5 mg/l/4h			

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Serious eye damage/irritation	: Causes eye irritation.
	pH: ≥ 2
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Formaldehyde (50-00-0)	
IARC group	1 - Carcinogenic to humans
National Toxicity Program (NTP) Status	Known Human Carcinogens
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Formaldehyde (50-00-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : No data available
•	

SECTION	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	/ - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Harmful to aquatic life.
12.2.	Persistence and degradability	
No additi	onal information available	
12.3.	Bioaccumulative potential	
No additi	onal information available	
12.4.	Mobility in soil	
No additi	onal information available	
12.5.	Other adverse effects	
No additi	onal information available	

<b>SECTION 13: Disposal consideration</b>	bns	
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
<b>SECTION 14: Transport information</b>	n	
Department of Transportation (DOT) In accordance with DOT		
Not applicable		
Transportation of Dangerous Goods		
Not applicable		
Transport by sea		
Not applicable		
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### Air transport

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Formaldehyde (50-00-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	100 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb	
Sodium Phosphate Monobasic Monohydrate (10049-21-5)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

### CANADA

Formaldehyde (50-00-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Sodium Phosphate Monobasic Monohydrate (10049-21-5)	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	

### **EU-Regulations**

### **National regulations**

# Formaldehyde (50-00-0) Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

Formaldehyde (50-00-0)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	40 µg/day	

Component	State or local regulations
Formaldehyde(50-00-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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SDS US (GHS HazCom 2012)

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