

Safety Data Sheet

Date of issue: 02/19/1998

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 12/16/2016

Supersedes: 10/01/2013

Version: 2.1

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Bouin's Fixative
Product code	: LC11790
1.2. Relevant identified uses of	f the substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of th	he safety data sheet
LabChem Inc	lding 1000, 1010 Jackson's Pointe Court
1.4. Emergency telephone num	nber
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
	fta a than
SECTION 2: Hazard(s) identif	
2.1. Classification of the substa	ance or mixture
GHS-US classification Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Cate Skin sensitization Category 1 Carcinogenicity Category 1B Specific target organ toxicity (single ex Hazardous to the aquatic environment	H317 H350 (posure) Category 1 H370
Figure Fi	
	16
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS05 GHS07 GHS08
Signal word (GHS-US)	GHS05 GHS07 GHS08 : Danger
Signal word (GHS-US) Hazard statements (GHS-US)	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor
lenses, if present and easy to do. Continue rinsing
lenses, if present and easy to do. Continue rinsing
P307+P311 - If exposed: Call a poison center/doctor
P308+P313 - IF exposed or concerned: Get medical advice/attention
P310 - Immediately call a poison center or doctor/physician
P321 - Specific treatment (see on this label)
P330 - If swallowed, rinse mouth
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards

Other hazards not contributing to the classification

: None.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	83.3	Not classified
Formaldehyde, 37% w/w	(CAS No) 50-00-0	7	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 1A, H350 STOT SE 1, H370 Aquatic Acute 2, H401
Acetic Acid	(CAS No) 64-19-7	4.8	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Methanol	(CAS No) 67-56-1	3.6	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Picric Acid, Wetted	(CAS No) 88-89-1	1.3	Flam. Sol. 1, H228 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314

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

SECT	ION 4: First aid measures	
4.1.	Description of first aid measures	
First-ai	d measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor/physician.
First-a	d measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-ai	d measures after skin contact	 Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-ai	d measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-ai	d measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.
4.2.	Most important symptoms and effe	ects, both acute and delayed
Sympt	oms/injuries	: Causes severe skin burns and eye damage. May cause cancer (Inhalation). Causes damage to organs (optic nerve, central nervous system) (Ingestion).
12/16/2	016	EN (English LIS) 2/12

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin. Red skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Impairment of the nervous system. Visual disturbances.
4.0 Indication of any immediate m	a disclassing and an a statement woods a

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

Obtain medical assistance.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from the sul	ostance or mixture			
Reactivity	: Thermal decomposition generates : Corrosive vapors.			
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective eq	uipment and emergency procedures			
6.1.1. For non-emergency personnel				
Protective equipment	: Safety glasses. Gloves.			
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing mist, spray.			
Emergency procedures	: Ventilate area.			
6.2. Environmental precautions				
	v authorities if liquid enters sewers or public waters.			
6.3. Methods and material for containme				
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect			
	spillage. Store away from other materials.			
6.4. Reference to other sections				
See Heading 8. Exposure controls and personal	protection.			
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.			
7.2. Conditions for safe storage, including	7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.			
Incompatible products	: Strong bases. Strong acids. Strong oxidizers.			
Incompatible materials	: Sources of ignition. Direct sunlight.			
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents.			
Storage area	: Keep locked up. Keep container in a well-ventilated place.			

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Picric Acid, Wetted		0.4 m m/m3	
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³	
IDLH	US IDLH (mg/m ³)	75 mg/m ³	
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.1 mg/m ³	
NIOSH	NIOSH REL (STEL) (mg/m ³)	0.3 mg/m ³	
Formaldehyde, 37%			
ACGIH	ACGIH Ceiling (mg/m ³)	0.37 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm	
OSHA	OSHA PEL (STEL) (ppm)	2 ppm	
IDLH	US IDLH (ppm)	20 ppm	
NIOSH	NIOSH REL (TWA) (ppm)	0.016 ppm	
NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm 15 min.	
Acetic Acid (64-19-7	7)		
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)	
OSHA	OSHA PEL (TWA) (mg/m ³)	25 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
IDLH	US IDLH (ppm)	50 ppm	
NIOSH	NIOSH REL (TWA) (mg/m ³)	25 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm	
NIOSH	NIOSH REL (STEL) (mg/m ³)	37 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm	
Water (7732-18-5)			
Not applicable			
Methanol (67-56-1)			
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)	
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
IDLH	US IDLH (ppm)	6000 ppm	
NIOSH	NIOSH REL (TWA) (mg/m ³)	250 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm	
NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³	
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm	
NIOSH	Remark (NIOSH)	Skin	

8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.
: Wear protective gloves.
: Chemical goggles or face shield.
: Wear suitable protective clothing.
: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
: Do not eat, drink or smoke during use.
properties
chemical properties
: Liquid
: Yellow liquid.
: Yellow
: characteristic
: No data available
: ≤2
: No data available
: Non flammable.

Explosive properties	:	No data available.
Oxidizing properties	:	None.

9.2. Other information

Relative vapor density at 20 °C

Auto-ignition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosion limits

Decomposition temperature

Relative density

Solubility

Log Pow

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
Therma	Thermal decomposition generates : Corrosive vapors.		
10.2.	Chemical stability		
Not esta	Not established.		
10.3.	Possibility of hazardous reactions		
Not esta	Not established.		
10.4.	Conditions to avoid		
Direct s	Direct sunlight. Extremely high or low temperatures.		

: No data available

: No data available

: Soluble in water.

: No data available

: No data available

: No data available

: No data available

No data availableNo data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.5. Incompatible materials Strong oxidizers. Strong acids. Strong bases. Hazardous decomposition products 10.6. Nitrogen oxides. fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors. **SECTION 11: Toxicological information** Information on toxicological effects 11.1. Likely routes of exposure : Inhalation; Skin and eye contact Acute toxicity : Oral: Harmful if swallowed. **Bouin's Fixative** ATE US (oral) 500.000 mg/kg body weight Picric Acid, Wetted (88-89-1) LD50 oral rat 200 mg/kg ATE US (oral) 200.000 mg/kg body weight Formaldehyde, 37% w/w (50-00-0) LD50 oral rat 500 mg/kg ATE US (oral) 500.000 mg/kg body weight ATE US (dermal) 2000.000 mg/kg body weight ATE US (vapors) 0.578 mg/l/4h Acetic Acid (64-19-7) 3310 mg/kg body weight (Rat; Other; Read-across) LD50 oral rat ATE US (oral) 3310.000 mg/kg body weight Water (7732-18-5) LD50 oral rat ≥ 90000 mg/kg ATE US (oral) 90000.000 mg/kg body weight Methanol (67-56-1) LD50 oral rat > 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence) LD50 dermal rabbit 15800 mg/kg (Rabbit; Literature study) LC50 inhalation rat (mg/l) 85 mg/l/4h (Rat; Literature study) LC50 inhalation rat (ppm) 64000 ppm/4h (Rat; Literature study) Skin corrosion/irritation : Causes severe skin burns and eye damage. pH: ≤ 2 Serious eye damage/irritation : Causes serious eye damage. pH: ≤ 2 Respiratory or skin sensitization : May cause an allergic skin reaction. Germ cell mutagenicity Not classified Based on available data, the classification criteria are not met Carcinogenicity : May cause cancer (Inhalation). Formaldehyde, 37% w/w (50-00-0) IARC group 1 - Carcinogenic to humans Reproductive toxicity : Not classified

 Based on available data, the classification criteria are not met

 Specific target organ toxicity (single exposure)
 : Causes damage to organs (central nervous system, optic nerve) (oral).

 Specific target organ toxicity (repeated exposure)
 : Not classified

 Aspiration hazard
 : Not classified

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	· · ·
Potential Adverse human health effects and symptoms	: Harmful if swallowed.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin. Red skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Impairment of the nervous system. Visual disturbances.

SECTION 12: Ecological information

2.1. Toxicity			
Bouin's Fixative			
EC50 Daphnia 1	8.35 mg/l		
Picric Acid, Wetted (88-89-1)			
LC50 fish 1	170 mg/l (LC50; 96 h)		
EC50 Daphnia 1	112 mg/l (EC50)		
EC50 other aquatic organisms 1	240 mg/l (Algae; Pure substance)		
Formaldehyde, 37% w/w (50-00-0)			
LC50 fish 1	41 mg/l (LC50; 96 h)		
EC50 Daphnia 1	14.7 mg/l (EC50; 24 h)		
EC50 Daphnia 2	2 mg/l		
Threshold limit algae 1	2.5 mg/l (EC0; 192 h)		
Methanol (67-56-1)			
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)		
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)		
12.2. Persistence and degradability			
Bouin's Fixative			
Persistence and degradability	Not established.		
Picric Acid, Wetted (88-89-1)			
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.		
Chemical oxygen demand (COD)	0.92 g O ₂ /g substance		
ThOD	0.98 g O ₂ /g substance		
Formaldehyde, 37% w/w (50-00-0)			
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. No test data on mobility of the components available. Photodegradation in the air.		
Biochemical oxygen demand (BOD)	0.64 g O₂/g substance		
Chemical oxygen demand (COD)	1.06 g O₂/g substance		
ThOD	1.068 g O₂/g substance		
BOD (% of ThOD)	0.6 (5 days; Literature study)		
Acetic Acid (64-19-7)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.		
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O₂/g substance		
Chemical oxygen demand (COD)	1.03 g O₂/g substance		
ThOD	1.07 g O₂/g substance		
Water (7732-18-5)			
Persistence and degradability	Not established.		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Methanol (67-56-1)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.		
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance		
Chemical oxygen demand (COD)	1.42 g O₂/g substance		
ThOD	1.5 g O₂/g substance		
BOD (% of ThOD)	0.8 (Literature study)		
12.3. Bioaccumulative potential			
Bouin's Fixative			
Bioaccumulative potential	Not established.		
Picric Acid, Wetted (88-89-1)			
Log Pow	2.03		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Formaldehyde, 37% w/w (50-00-0)			
Log Pow	-0.78 - 0.0		
Bioaccumulative potential	Bioaccumulation: not applicable.		
Acetic Acid (64-19-7)			
BCF fish 1	3.16 (BCF; Pisces)		
Log Pow	-0.17 (Experimental value; 25 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		
Water (7732-18-5)	Water (7732-18-5)		
Bioaccumulative potential	Not established.		
Methanol (67-56-1)			
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)		
Log Pow	-0.77 (Experimental value; Other)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		

12.4. Mobility in soil

Formaldehyde, 37% w/w (50-00-0)		
Ecology - soil	Toxic to flora.	
Acetic Acid (64-19-7)		
Surface tension	0.028 N/m (20 °C)	
Log Koc	log Koc,0.06; QSAR	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	
Methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	
12.5. Other adverse effects		
Effect on the global warming	No known effects from this product.	
GWPmix comment	No known effects from this product.	

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. 	
Ecology - waste materials	: Avoid release to the environment.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT	
Transport document description	

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Packing group (DOT) Hazard labels (DOT)

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : III Minor Danger
- : 8 Corrosive



		×
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	241
DOT Symbols	:	G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Other information	:	No supplementary information available.

SEC	TION 15: Regulatory information	
15.1.	US Federal regulations	
Bou	in's Fixative	
SAR	A Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Picric Acid, Wetted	CAS No 88-89-1	1.3%
Methanol	CAS No 67-56-1	3.6%

Picric Acid, Wetted (88-89-1)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Reactive hazard Fire hazard
SARA Section 313 - Emission Reporting	1 %

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Formaldehyde, 37% w/w (50-00-0)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	0.1 %	
Acetic Acid (64-19-7)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
Methanol (67-56-1)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard	

5.2. International regulations		
CANADA		
Bouin's Fixative		
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class E - Corrosive Material	
Picric Acid, Wetted (88-89-1)		
WHMIS Classification	Class F - Dangerously Reactive Material Class E - Corrosive Material Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects	
Formaldehyde, 37% w/w (50-00-0)		
Listed on the Canadian DSL (Domestic Substand	ces List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material	
Acetic Acid (64-19-7)		
Listed on the Canadian DSL (Domestic Substand	ces List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Methanol (67-56-1)		
Listed on the Canadian DSL (Domestic Substand	ces List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

EU-Regulations No additional information available

National regulations

Formaldehyde, 37% w/w (50-00-0)		
Listed on the Canadian IDL (Ingredient Disclosure List)		
Acetic Acid (64-19-7)		
Listed on the Canadian IDL (Ingredient Disclosure List)		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.3. US State regulations		
Bouin's Fixative		
U.S California - Proposition 65 - Carcinogens List	Yes	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Formaldehyde, 37% w/w (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	Non-significant risk level (NSRL)	
Yes	Yes	No	No	40 µg/day	
Methanol (67-56-1)					
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	Non-significant risk level (NSRL)	
No	Yes	No	No		

Revision date	: 12/16/2016
Other information	: None.
ull text of H-phrases: see section	16
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H228	Flammable solid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H331	Toxic if inhaled
H350	May cause cancer
H370	Causes damage to organs
H401	Toxic to aquatic life
H402	Harmful to aquatic life
FPA health hazard	3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
FPA fire hazard	: 1 - Must be preheated before ignition can occur.
FPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.
Personal protection	: G G - Safety glasses, Gloves, Vapor respirator

SDS US LabChem

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.