

Safety Data Sheet

according to the Model Work Health and Safety Regulations
Date of issue: Revision date: 05/09/2018

Version: 1.0

SECTION 1: Identification : Product identifier and chemical identity				
1.1.	Product identifier			
Trade name : 10% Neutra		: 10% Neutr	al Buffered Formalin	
3800770, 3		3800770, 3	3800600, 3800600E, 38006001E, 3800602, 3800604E, 3800604EG, 3800650, 3800759, 380077027, 3800780, 3800780CLS, 3800810, 380081018, 3800840, 3800840E, 3800790, 3800801, 3801801	
1.2.	Other means of identification			
No additional information available				
1.3.	Recommended use of the chemical and restrictions on use			
Recommended use : Preservation		: Preservation	on of tissue specimens	
Restrictions on use : Other uses		: Other uses		
1.4.	Supplier's details			
Leica Mi	crosystems Pty Ltd			
Suite 2,	Level 3, Building A, Talavera Road			
Macquarie Park - 2113 Australia				
1.5.	Emergency phone number			
Organisation/Company			Emergency number	
ChemTrec			800-424-9300	

+1 703-527-3887

Australia 24 Hr Poisons Information Centre	13 11 26

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 2

International Calls (call collect)

2.2. Label elements	
Signal word (GHS-AU)	: Danger
Hazard statements (GHS-AU)	: H225 - Highly flammable liquid and vapour
Precautionary statements (GHS-AU)	 P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking. P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P370+P378 - In case of fire: Use dry chemical, foam, or water spray for extinction. P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container in accordance with all local/regional/national/international regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients					
Name	CAS-No.	Compound type	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)	
methanol	67-56-1		< 2	Flam. Liq. 2, H225	
Formaldehyde	50-00-0		< 6	Not classified	

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SECTIO	SECTION 4: First aid measures				
4.1.	Description of first aid				
	measures general		IF exposed or concerned: Get medical adv	vice/attention	
-			Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact :			Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid	measures after eye conta	ct :	Rinse eyes with water as a precaution.		
First-aid	measures after ingestion	:	Call a poison center or a doctor if you fee	l unwell.	
4.2.	Symptoms caused by e	xposure			
Sympton	ns/effects after skin conta		Irritation. May cause an allergic skin react	tion.	
4.3.			on and special treatment needed		
Other me	edical advice or treatment	: :	Treat symptomatically.		
SECTIO	N 5: Firefighting me	asures			
5.1.	Extinguishing media				
Suitable	extinguishing media	:	Water spray. Dry powder. Foam. Carbon	dioxide.	
5.2.	Special hazards arising	from the substance o	or mixture		
Fire haza			No data available on direct fire hazard.		
5.3.	Special protective equi	nment and precautio	ns for fire-fighters		
	on during firefighting			itable protective equipment. Self-contained breathing	
SECTIO	N 6: Accidental relea	ase measures			
6.1.	Personal precautions, p	protective equipment	and emergency procedures		
6.1.1.	For non-emergency per	sonnel			
Emergen	cy procedures	:	Ventilate spillage area. Only qualified per intervene.	sonnel equipped with suitable protective equipment may	
6.1.2.	For emergency respond	lers			
Protectiv	e equipment	:	Do not attempt to take action without sui section 8: "Exposure controls/personal pr	itable protective equipment. For further information refer to otection".	
6.2.	Environmental precaut	ions			
Avoid rel	ease to the environment.	Notify authorities if p	roduct enters sewers or public waters.		
6.3.	Methods and material	for containment and	cleaning up		
Methods	for cleaning up	:	Take up liquid spill into absorbent materia	al. Notify authorities if product enters sewers or public waters.	
SECTIO	N 7: Handling and st	orage, including	how the chemical may be safely ι	used	
7.1.	Precautions for safe ha	ndling			
Addition	al hazards when processe	d :	In the United States, refer to OSHA 1910.	1048 for requirements for handling of formaldehyde solutions.	
Precautio	ons for safe handling	:	instructions before use. Do not handle un all necessary technical measures to avoid	on. Wear personal protective equipment. Obtain special itil all safety precautions have been read and understood. Take or minimize the release of the product on the workplace. ntilation. Avoid contact with skin and eyes.	
Hygiene measures :			: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2.	Conditions for safe stor	age, including any in	compatibilities		
Technical measures : Comply with applic			Comply with applicable regulations.		
Storage o	Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.				
SECTIO	N 8: Exposure contro	ols/personal prot	tection		
8.1.	Control parameters - ex	xposure standards			
metha	nol (67-56-1)				
USA - A		ACGIH TWA (ppm)		200 ppm (Methanol; USA; Time-weighted average exposure	
				limit 8 h: TLV - Adopted Value)	

limit 8 h; TLV - Adopted Value)

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ue; TLV - Adopted
1

Exposu	re limit values for the other components		
8.2.	Monitoring		
No add	itional information available		
8.3.	Appropriate engineering controls		
Approp	riate engineering controls	: Ensure good ventilation of the work station.	
8.4.	Personal protective equipment		
Hand protection		Protective gloves	
Eye protection		: Safety glasses	
Skin and body protection		: Wear suitable protective clothing	
Respiratory protection		: If the occupational exposure limit is exceeded, use an approved organic vapor respirator. Selecti respiratory protection depends on the contaminant type, form, and concentration. Select in according with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.	
Environmental exposure controls		Avoid release to the environment.	

SECTION 9: Physical and chemical prop	perties
Physical state	: Liquid
Colour	: Colourless
Odour	: Pungent
Odour threshold	: No data available
рН	: 7-7.2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1.03
Solubility	: No data available
Log Pow	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available
SECTION 10: Stability and reactivity	
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.

Avoid contact with	hot surfaces Hoa	No flamos	no charke	Eliminate all sources of ign	ition
Avolu contact with	not surraces. riea	L. INU Haines,	IIU sparks.	Linninale an sources of ign	ition.

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Conditions to avoid

Hazardous decomposition products

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SECTION 11: Toxicological infor	mation		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
methanol (67-56-1)			
methanol (67-56-1)			
LD50 oral rat	> 5000 mg/kg (Rat: BASE test: Literature study: 1187-2769 mg/kg bodyweight: Rat: Weight of		
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)		
LD50 oral rat LD50 dermal rabbit			
	evidence)		

Skin corrosion/irritation	: Not classified
	рН: 7 - 7.2
Serious eye damage/irritation	: Not classified
	pH: 7 - 7.2
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
10% Neutral Buffered Formalin	
Density	1.03

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1.	Ecotoxicity		
Ecology - general			The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aq	uatic toxicity	:	Not classified
Chronic a	aquatic toxicity	:	Not classified

12.2. Persistence and degradability

Formaldehyde (50-00-0)					
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the components available. Photodegradation in the air.				
Biochemical oxygen demand (BOD)	0.64 g O ₂ /g substance				
Chemical oxygen demand (COD)	1.06 g O ₂ /g substance				
ThOD	1.068 g O ₂ /g substance				
BOD (% of ThOD)	0.6				
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 O ₂ /g substance				
ThOD	1.5 g O ₂ /g substance				
BOD (% of ThOD)	0.8 (Literature study)				
12.3. Bioaccumulative potential					
Formaldehyde (50-00-0)					
Log Pow	See section 12.1 on ecotoxicology				
Bioaccumulative potential	Bioaccumulation: not applicable.				

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methanol (67-56-1)					
BCF fish 1	See section 12.1 on ecotoxicology				
Log Pow	See section 12.1 on ecotoxicology				
Log Koc	See section 12.1 on ecotoxicology				
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).				
12.4. Mobility in soil					
Formaldehyde (50-00-0)					
Log Pow	See section 12.1 on ecotoxicology				
methanol (67-56-1)					
Surface tension	0.023 N/m (20 °C)				
Log Pow	See section 12.1 on ecotoxicology				
Log Koc	See section 12.1 on ecotoxicology				
12.5. Other adverse effects					
Ozone	: Not classified				
Other adverse effects	: No additional information available				
SECTION 13: Disposal considerations					
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				
SECTION 14: Transport information					
14.1. UN number					
Not regulated for transport					
14.2. Proper Shipping Name - Addition					
Not applicable					
14.3. Transport hazard class(es)					
IMDG					
Transport hazard class(es) (IMDG)	: Not applicable				
ΙΑΤΑ					
Transport hazard class(es) (IATA)	: Not applicable				
14.4. Packing group					
Packing group (IMDG)	: Not applicable				
Packing group (IATA)	: Not applicable				
14.5. Environmental hazards					
Marine pollutant	: No				
14.6. Special precautions for user					
Specific storage requirement	: No data available				
Shock sensitivity	: No data available				
14.7. Additional information					
Other information	: No supplementary information available				
Transport by road and rail					
Not applicable					
Transport by sea					
Not applicable					
Air transport Not applicable					
Not applicable					
14.8. Hazchem or Emergency Action Code					
Hazchemcode	: Not applicable				
27/11/2018	EN (English)				

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SECTION 15: Regulatory information						
15.1. Safety, health a	Safety, health and environmental regulations/legislation specific for the substance or mixture					
No additional information available						
15.2. International a	International agreements					
No additional information available						
SECTION 16. Any other relevant information						
SECTION 16: Any other relevant information						
Revision date	: 05/09/2018					
Classification:						
Flam. Liq. 2	H225					
Full text of H-statements:						
Flam. Liq. 2	Flammable liquids, Category 2					
H225	Highly flammable liquid and vapour					

SDS Australia Leica

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product