

# Material Safety Data Sheet

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Infosafe No™ BLC4A Issue Date : March 2015 RE-ISSUED by THERMOF

Product Name **Container Filled With Formalin 10% Buffered Neutral**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** Container Filled With Formalin 10% Buffered Neutral  
**Product Code** LBSFM30006, LBSFM32022, LBS32022, LBS33552  
**Company Name** Thermo Fisher Scientific Australia Pty Ltd (ABN 52 058 390 917)  
**Address** 5 Caribbean Drive  
(PO Bix 9092) Scoresby  
VIC 3179 Australia  
**Telephone/Fax Number** Tel: (03) 9757 4300  
Fax: 1800 067 639  
**Emergency Contact Name** CHEMCALL (24hr): Australia: 1800 127 406; New Zealand: 0800 243 622  
Other International Callers: +64 3 353 0199  
**Email** AUinfo@thermofisher.com  
**Recommended Use** Laboratory reagent.  
**Other Information** For New Zealand:  
Thermo Fisher Scientific New Zealand Limited  
244 Bush Road, Albany  
Auckland, New Zealand  
Tel: 09 980 6700 Fax: 09 980 6788  
Email: NZinfo@thermofisher.com

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Classified as hazardous  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Classified as hazardous  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R43 May cause sensitization by skin contact.  
**Safety Phrase(s)** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 Wear suitable protective clothing and gloves.  
S45 In case of accident or if you feel unwell seek medical advice immediately  
S51 Use only in well ventilated areas.  
**Other Information** HSNO classification (NZ): 3.1D, 6.1B, 6.5B, 6.6B, 6.7A, 6.9B, 8.2C, 8.3A, 9.1D, 9.2A, 9.3B  
ERMA Approval Code: HR001583

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	Methanol	67-56-1	<2%	T, F	R11, R23/25
	Water	7732-18-5	>60%		
	Formaldehyde	50-00-0	<10%		

## 4. FIRST AID MEASURES

**Inhalation** Remove to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice.  
**Ingestion** DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek medical attention.  
**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothing before re-use. Seek medical advice.  
**Eye** If in eyes wash out immediately with water and seek medical advice.

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**First Aid Facilities** Eye wash fountains and safety showers should be available for emergency use.  
**Advice to Doctor** Treat symptomatically.  
**First Aid** For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor at once. Urgent hospital treatment is likely to be needed.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Water spray, dry chemical, foam, or carbon dioxide.  
**Specific Methods** Fire fighters to wear self-contained breathing apparatus pressure-demand and full protective gear. Evacuate area and fight fire from a safe distance. Water spray can be used to extinguish fires and cool fire-exposed containers. Contain and collect water used to fight fire.  
**Specific Hazards** During a fire, product may decompose to form oxides of carbon. Formaldehyde vapour may be present.

## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal** Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Avoid contact with eyes, skin or clothing. Do not breathe vapour/mists. Use in a well ventilated area. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace.  
**Conditions for Safe Storage** Store in original container in a well ventilated area, away from foods and other chemicals. Protect against physical damage. Separate from oxidizing materials, peroxides, acids and alkalis. Storage and use areas should be No Smoking areas.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Methanol	328	250	262	200	
	Formaldehyde	2.5	2	1.2	1	

**Engineering Controls** Ensure sufficient ventilation to maintain airborne concentrations below exposure limits and prevent exposure to vapours, mists and fumes. Local exhaust ventilation should be used.

**Respiratory Protection** If the exposure limit is exceeded and/or engineering controls are not feasible, then suitable respiratory protective equipment should be used for protecting against airborne contaminants. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.  
NOTE: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.  
Final choice of appropriate breathing protection is dependant upon actual airborne concentrations. The type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision.

**Eye Protection** Safety glasses, goggles or faceshield as appropriate.

**Body Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** Liquid

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<b>Appearance</b>	Clear, colourless or blue liquid
<b>Odour</b>	Characteristic odour.
<b>Melting Point</b>	Not available.
<b>Boiling Point</b>	Not determined.
<b>Solubility in Water</b>	Completely miscible.
<b>Specific Gravity</b>	1.000-1.010
<b>pH Value</b>	Not available.
<b>Vapour Pressure</b>	Not determined.
<b>Vapour Density (Air=1)</b>	Not determined.
<b>Evaporation Rate</b>	1.5 (BuAc=1)
<b>Flash Point</b>	Not available
<b>Flammable Limits - Lower</b>	Not available.
<b>Flammable Limits - Upper</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Heat.
<b>Incompatible Materials</b>	Incompatible with oxidizing agents, peroxides, acids and alkalis.
<b>Hazardous Decomposition Products</b>	May form oxides of carbon.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicology data available for this product. -- Ingredient Toxicological Data: Formaldehyde: Oral rat LD50: 100 mg/kg; Skin rabbit LD50: 270 uL/kg, Irritation data: eye, rabbit, 750ug Severe; Inhalation rat LC50: 203 mg/m3; Investigated as a tumorigen, mutagen, reproductive effector; IARC Category: 1 - Carcinogenic to humans. Methanol: Oral rat LD50: 5628 mg/kg; Inhalation rat LC50: 64000 ppm/4H; Skin rabbit LD50: 15800 mg/kg.
<b>Health Hazard</b>	Previously exposed persons may have an allergic reaction to future exposures.
<b>Inhalation</b>	May cause irritation and sensitization of the respiratory tract. May result in coughing, chest pains, breathing difficulties and pulmonary oedema.
<b>Ingestion</b>	Can cause severe abdominal pain, violent vomiting, headache, and diarrhea. Larger doses may produce decreased body temperature, pain in the digestive tract, shallow respiration, weak irregular pulse, unconsciousness.
<b>Skin</b>	May cause irritation to skin with redness, pain. Formaldehyde is a severe skin irritant and sensitizer. Contact causes white discoloration, smarting, cracking and scaling.
<b>Eye</b>	Vapours may cause irritation to the eyes with redness, pain.
<b>Chronic Effects</b>	Repeated or prolonged skin contact with formaldehyde may cause an allergic reaction in some people. Formaldehyde is a suspected carcinogen (positive

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animal inhalation studies).

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No ecological data available for this product.  
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Ingredient Data:  
Formaldehyde:  
Formaldehyde is expected to be slightly toxic to aquatic life.  
The LC50/96-hour values for fish are between 10 and 100 mg/l.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Recover or recycle if possible. Otherwise incineration.

## 14. TRANSPORT INFORMATION

**Transport Information** Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. REGULATORY INFORMATION

**Poisons Schedule** S6  
**Hazard Category** Harmful, Irritant

## 16. OTHER INFORMATION

**Contact Person/Point** For Australia:  
Thermo Fisher Scientific Australia Pty Ltd  
EH&S Manager  
PHONE: (03) 9757 4300  
FAX: 1800 067 639  
HOURS: 9.00AM TO 5.00PM EST

For New Zealand:  
Thermo Fisher Scientific New Zealand Limited  
QA Manager  
PHONE: 09 980 6700  
FAX 09 980 6788  
HOURS: 9.00AM TO 5.00PM

### Disclaimer:

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace based on the information available at the time. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other product. If clarification of further information is needed to ensure that the appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, which are available on request.

### Literature References

1. Ansell Occupational Healthcare, (2003), 'Chemical Resistance Guide Permeation and Degradation Data', 7th Ed.
2. Department of Health and Ageing, (June 2008), 'Standards for the Uniform Scheduling of Drugs and Poisons (SUSDP)', No. 23.
3. National Road Transport Commission, (Oct 2007), 'Australian Code for the Transport of Dangerous Goods by Road and Rail', 7th Ed.
4. NOHSC:2011(2003), 'National Code of Practice for the Preparation of Material Safety Data Sheets', 2nd Ed.
5. NOHSC:1008(2004), 'Approved Criteria for Classifying Hazardous Substances'.
6. NOHSC:1003(1995), 'Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
7. Standards Australia, AS/NZS 1715:1994, 'Selection, Use and Maintenance of Respiratory Protective Devices'.

### Key:

IARC - International Agency for Research on Cancer (WHO).

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ES - Exposure Standards (NOHSC) Australia.  
WES - Workplace Exposure Standards (OSH) New Zealand.

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