

MATERIAL SAFETY DATA SHEET
BUFFERED FORMALIN 10% CLEAR
1. Identification of the Product and Company

Product Name:	BUFFERED FORMALIN 10% CLEAR
Product Code:	BUF00536F, BUF01536F
Other Names:	None allocated
Use:	Buffered Formalin 10% is for the preservation of pathological specimens.
Company Name & Contact Details	Drug Information Pharmacist ORION Laboratories Pty Ltd ABN 56 009 293 136 25-29 Delawney Street, Balcatta, Western Australia 6021 AUSTRALIA Telephone (all hours): +618 9441 7800 FREE PHONE: 1800 805 546 FREE FAX: 1800 004 110 EMAIL: customerservice@orion.net.au; WEBSITE: www.orion.net.au ORION® is a registered trademark of Orion Laboratories Pty Ltd
Other Information	All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Orion accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.

2. Hazards Identification

Hazard Classification	HAZARDOUS PRODUCT (Harmful). NOT A DANGEROUS GOOD.
Risk phrase(s)	R40 Limited evidence of carcinogenic effect. R43 May cause sensitisation by skin contact.
Safety phrase(s)	S2 Keep out of reach of children. S24/25 Avoid contact with skin and eyes. Avoid inhaling vapour. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

3. Composition/Information on Ingredients

Chemical Entity	CAS No:	Proportion
Formaldehyde	50-00-0	3.6%
Sodium Acid Phosphate	13472-35-0	<10%
Sodium Phosphate	10039-32-4	<10%
Methanol	67-56-1	<10%
Water, Purified	-	to 100%

4. First Aid Measures Contact a doctor or Poisons Information Centre (Australia 13 11 26).

Inhalation:	Remove victim from exposure - avoid becoming a casualty. If unwell, contact a doctor or Poisons Information Centre (Australia 13 11 26). If not breathing, give artificial respiration
Ingestion:	Rinse mouth thoroughly with water immediately. DO NOT induce vomiting. Give water or milk to drink. Give raw egg if available. Contact a doctor or Poisons Information Centre.
Skin:	Remove contaminated clothing and wash skin thoroughly with mild soap and water. Wash contaminated clothing before re-use or discard.
Eye:	If in eyes, act promptly. Hold eyes open, flood with cold water for at least 15 minutes. Contact a doctor or Poisons Information centre (Australia 13 11 26).
Advice to Doctor:	Treat symptomatically. This preparation contains 3.6% formaldehyde. The health effects associated with this strength of formaldehyde are unknown, but the information above, applicable to full strength formaldehyde should serve as a guide.

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5. Fire Fighting Measures

Extinguishing Media	Not flammable. Water fog, carbon dioxide, dry chemical powder or foam may be used.
Hazards from Combustion products	Carbon monoxide, carbon dioxide.
Precautions & Equipment for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and protective clothing as exposure to combustion products is likely.
Special Remarks on Explosion Hazards	Reaction with peroxide, nitrogen dioxide and performic acid can cause an explosion (Formaldehyde gas).
Hazchem Code	2X

6. Accidental Release Measure

Contain using sand or earth and use an absorbent (sand, vermiculite) where appropriate. Collect and seal in properly labelled containers for disposal. If necessary, neutralise the residue with a weak solution of acetic acid solution.

Water spray may be used to dilute vapours. Avoid entry to drains & waterways.

Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods.

Wear protective equipment to avoid skin contact. Wear self-contained breathing apparatus.

7. Handling and Storage

Safe Handling Practices	Keep containers well closed at all times.
Storage	Store in a well-ventilated place, above 15°C and below 30°C and out of direct sunlight. Store away from foodstuffs.
Other Information	Not classified as dangerous for purpose of transport.

8. Exposure Controls; Personal Protection

Exposure Limits:	There are no exposure limits available for this concentration of formaldehyde but the following limits for full strength formaldehyde should serve as a guide:		
	TLV	1.2mg/m ³ (1ppm)	
	Short term exposure limit (STEL)	2.5mg/m ³ (2ppm)	
Engineering Controls	Maintain concentration below recommended exposure limit. Use in conjunction with exhaust ventilation. Use adequate ventilation at all times. Personnel shower and/or eye bath should be made available.		
Personal Protection	Use approved half-face filter respirator (mask) to sufficiently prevent breathing of vapour. Avoid contact with skin by wearing appropriate clothing and gloves. If splashing is likely, wear safety glasses during use.		

9. Physical and Chemical Properties

Appearance:	A clear aqueous liquid.		
Odour:	Distinct (pungent) formalin odour. Detectable at 1ppm	Boiling Point:	Approximately 100°C
pH:	6.8 – 7.2	Freezing/Melting Point:	Not known
Vapour Pressure:	Not known	Solubility:	Very soluble in water
Vapour Density:	Not known	Specific Gravity or Density:	1.00 – 1.03g/mL

10. Chemical Stability and Reactivity Information

Conditions Contributing to Instability	Stable under normal conditions of use.
Hazardous Polymerisation	No data available
Substances to Avoid	Slightly reactive to reactive with oxidizing agents, reducing agents, acids, alkalis.
Conditions to Avoid	Avoid strong heating.

11. Toxicological Information

Avoid contact with the skin or mucous membranes. Avoid inhaling vapour

Inhalation:	Irritating to the nose and respiratory tract. Sensitivity reactions may occur.
Ingestion:	If swallowed, may cause pain, inflammation and ulceration with vomiting, gastrointestinal bleeding and bloody urine.
Skin:	May cause hardening or whitening of the skin. Contact dermatitis and sensitivity reactions may occur.
Eye:	Irritating to the eyes. May cause stinging and redness.
Toxicity:	<i>Concentrations of Formaldehyde greater than 25% are presumed to be human carcinogens. May also cause sensitisations to susceptible individuals.</i>
Toxicological Data on Ingredients:	Formaldehyde gas: ORAL (LD50): Acute 100mg/kg [Rat]. 42mg/kg [Mouse]. Methanol: ACUTE DERMAL: (LD50) 15800 mg/kg [Rabbit]

12. Ecological Information

Mobility:	Not known – stable product.
Persistence and Degradability:	Biological degradability: good.
Toxicity of the Products of Biodegradation:	The products of biodegradation are less toxic than the product itself.
Ecotoxicity:	Formalin solutions are very toxic to aquatic life. Do not allow to enter waters, waste water or soil.

13. Disposal Considerations

Disposal Methods & Containers:	Collect and seal in properly labelled containers for disposal. Wash area down with excess water. Empty containers may be decontaminated by rinsing in water. Containers may be recycled where permitted.
Special Disposal for Landfill or Incineration:	Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods.

14. Transport Information

UN Number:	None allocated
UN Proper Shipping Name:	None allocated
DG Class & Subsidiary Risk:	None allocated
Packing Group:	None allocated
Hazchem Code:	2X

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15. Regulatory Information

Not classified using the criteria in the Standard Uniform Schedule for Drugs and Poisons.

16. Other Information

References:

- *List of Designated Hazardous Substances [NOHSC:10005(1999)]*
- *MSDS **Formaldehyde**, 10%, Neutralized and Buffered, 11/01/2010*
ScienceLab

Checked by: Anna McLean	Date: May 2011
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Date	Document	Superseded Document	Revision Information
April 2008	BUF00536_07 April 2008	BUF 00536_6 November 2007	General review
May 2011	BUF00536_08 May 2011	BUF00536_07 April 2008	General review. Changes to various sections.

END OF MSDS