

Material Safety Data Sheet

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Infosafe No. 4ACMU Issue Date : March 2004 ISSUED by PDS

Product Name : **FORMOCRESOL SOLUTION**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name FORMOCRESOL SOLUTION
Product Code 34510
Product Use Used in dentistry for the mummification of pulp tissue in endodontic therapy of adults.
Company Name Professional Dentist Supplies Pty. Ltd. (ABN 69 088 275 576)
Address Building 3/8 Nicole Close Bayswater North
VIC 3153 Australia
Emergency Tel. +61 3 9761 6615 bh
Telephone Number/Fax Tel: +61 3 9761 6615 Fax: +61 3 9730 1073

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Formaldehyde	50-00-0	50-100 %
	O-Cresol	95-48-7	0-50 %

3. HAZARDS IDENTIFICATION

Classified as Hazardous according to criteria of NOHSC.
Classified as a Dangerous Good according to the ADG Code.

Risk Phrase

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R40(3) Possible risk of irreversible effects.
R43 May cause sensitization by skin contact.

Safety Phrase

S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).
S51 Use only in well ventilated areas.

4. FIRST AID MEASURES

Inhalation Remove source of contamination or victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. Seek immediate medical attention.

Ingestion DO NOT induce vomiting. Immediately wash mouth out with water. Seek medical attention.

Skin Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. Seek immediate medical attention.

Eye If contact with the eye(s) occur, wash with copious amounts of water, holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.

First Aid Facilities Safety showers, eye wash fountains and normal washroom facilities.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 03 4747 000 [Not after May 2005] or 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Extinguishing Media Water, carbon dioxide, dry chemical and foam.

Specific Hazards Combustible C2 liquid. Will burn if sufficient heat is applied ie. under fire conditions. Will also evolve irritating, corrosive or toxic fumes.

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Hazardous	Oxides of carbon, hydrocarbons, aldehydes.
Combustion Products	
Precautions in connection with Fire	Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise exposure.

6. ACCIDENTAL RELEASE MEASURES

Increase ventilation and remove sources of heat and ignition. Evacuate all unnecessary personnel. Wear Self-Contained Breathing Apparatus and full protective clothing to minimise exposure. Contain spillage by damming and cover with inert, non combustible absorbent material. Use clean non sparking tools to collect the material and place into suitable labelled containers ready for disposal. If large quantities of this material enter the environment may need to be retrieved by pumping into inert labelled containers and the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Handling	Build up of mists or vapours in the atmosphere must be prevented especially when hot. Avoid inhaling vapours/mists. Repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or going to the toilet.
Storage	The product should be stored in a cool, dry, well ventilated area, away from incompatible materials. Keep containers tightly closed when not in use and protected against physical damage. Store below 25°C. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Provide electrical earthing of equipment. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. For information on the design of the store-room reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all Local, State and Federal regulations.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Formaldehyde	2.5	2	1.2	1	
Other Exposure Information	No exposure standards have been established for this material by the National Occupational Health and Safety Commission (NOHSC), however an exposure standard for the constituent Formaldehyde are listed above.					
Respiratory Protection	Where ventilation is inadequate and the use of an approved respirator with organic vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended however final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715- Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716- Respiratory Protective Devices.					
Eye Protection	The use of face shields, chemical goggles, or safety glasses with side shield protection recommended as appropriate. Final choice of appropriate eye/face protection will vary according to individual circumstances including methods of handling or engineering controls as determined by appropriate risk assessments. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.					
Hand Protection	Impervious gloves (Nitrile or Natural Rubber) recommended. Final choice of appropriate glove type will vary according to individual circumstances, including methods of handling or engineering controls as determined by appropriate risk assessments. Refer to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.					
Eng. Controls	Natural ventilation should be sufficient, however where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.					
Other Information	Biological Limit Values: No biological limit allocated.					

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to straw coloured liquid with a characteristic odour of formaldehyde.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Soluble
Specific Gravity (H₂O=1)	> 1 (water=1)
Vapour Pressure	Not available
Flash Point	>150°C
Flammability	Combustible C2 liquid. Will burn if sufficient heat is applied ie. under fire conditions. Will also evolve irritating, corrosive or toxic fumes.
Flammable Limits LEL	Not available
Flammable Limits UEL	Not available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Hazardous Polymerization	Will not occur.
Materials to Avoid	Strong oxidising agents.
Hazardous Decomposition Products	Decomposition may result in toxic and corrosive fumes.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data is available for this material.
Inhalation	Toxic if inhaled. Mists and vapours will cause severe irritation and possible chemical burns to the mucous membrane and upper airways. Symptoms can include nausea, coughing, breathing difficulties and pulmonary oedema.
Ingestion	Toxic if swallowed. Will cause severe irritation and chemical burns to the mouth, esophagus and stomach. Symptoms will include nausea, vomiting, tissue damage and severe abdominal pain.
Skin	Toxic in contact with the skin. Will cause severe irritation and chemical burns in contact with the skin, which will result in swelling, itching, stinging and tissue damage. May cause sensitisation in contact with the skin.
Eye	Will cause severe chemical burns. Risk of serious damage to the eyes, which can result in irreversible eye damage or blindness.
Chronic Effects	Prolonged or repeated exposure to this material may result in skin irritation leading to dermatitis. Inhalation may aggravate existing respiratory disorders. Formaldehyde is classified as a Category 3 Carcinogen according to Worksafe Australia. That is, there is some evidence from appropriate animal studies that human exposure can result in the development of cancer, but this evidence is insufficient to place the substance in Category 2.

12. ECOLOGICAL INFORMATION

Environ. Protection	Prevent this material entering waterways, drains and sewers.
Mobility	No data is available for this material.
Persistence / Degradability	No data is available for this material.
Ecotoxicity	No data is available for this material.

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

14. TRANSPORT INFORMATION

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This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following:

- Class 1, Explosives,
- Class 4.3, Dangerous When Wet Substances,
- Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides,
- Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids),
- Class 7, Radioactive Substances,
- Class 8, Corrosive Substances (concentrated strong acid is to be segregated from strong alkali), and are incompatible with food and food packaging in any quantity.

ADG U.N. Number 1760
ADG Proper Shipping Name CORROSIVE LIQUID, N.O.S. - (Contains formaldehyde)
ADG DG Class 8
ADG Hazchem Code 2X
ADG Packaging Method 5.9.8
ADG Packing Group III
ADG EPG Number 8A1
ADG IERG Number 37

15. REGULATORY INFORMATION

Risk Phrase R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
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Safety Phrase S2 Keep out of reach of children.
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S51 Use only in well ventilated areas.

Poisons Schedule S2

Hazard Category Toxic, Corrosive

Packaging & Labelling Labelling requirements of the Standard for Uniform Scheduling of Drugs and Poisons do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing purposes; however is labelled in accordance with the National Occupational Health and Safety Commission's 'National Code of Practice for the Labelling of Workplace Substances'.

16. OTHER INFORMATION

Contact Person/Point PROFESSIONAL DENTIST SUPPLIES
Ph: 03 9761 6615 (business hours)
The information contained within this material safety data sheet (MSDS) is believed to be accurate on the date of issue and in accordance with the information provided to us. Any person handling the product referred to in this material safety data sheet do so at their own risk. Professional Dental Supplies accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

SDS History MSDS Review: January 2004.
MSDS Supersedes: February 1999.
...End Of MSDS...