

Material Safety Data Sheet

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Infosafe No™ 4ACMU Issue Date : January 2009 ISSUED by PDS

Product Name : **FORMOCRESOL SOLUTION**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) 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(s) 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.
S38 If insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell seek medical advice immediately
S51 Use only in well ventilated areas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Inhalation Avoid becoming a casualty - to protect rescuer, use air-viva, oxy-viva or one-way mask. Remove affected person from contaminated area - Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. Resuscitate in a well-ventilated area. Seek IMMEDIATE medical attention.

Ingestion Do not induce vomiting. Immediately wash out mouth with water (never give anything by mouth if victim is semi-conscious or unconscious). Seek immediate medical attention.

Skin Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. Seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical

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attention.
First Aid Facilities Eye wash fountain, safety shower and normal washroom facilities.
Advice to Doctor Treat symptomatically.
Other Information For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical, foam, water fog or water mist.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes and gases including hydrocarbons, aldehydes, carbon monoxide and carbon dioxide.
Specific Hazards Combustible liquid. This product will readily burn under fire conditions.
Hazchem Code 2X
Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage Store in a cool (below 25°C), dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Refer to AS 3780-1994 The storage and handling of corrosive substances. Reference should also be made to all applicable local and national regulations.
Storage Regulations Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well-ventilated area away from naked flames, sparks and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No value is assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC) Australia, however the available exposure limits on the ingredients as provided by NOHSC are as follows:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Formaldehyde	0.3	0.36	0.6	0.72	Sen

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TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sen' Notice: The substance may cause sensitization by skin contact or by inhalation.

No biological limits allocated.

Biological Limit Values

Engineering Controls

This substance is toxic and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. Alternatively, a process enclosure system such as a fume cupboard should be employed. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed. Refer to AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as nitrile or natural rubber. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

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	>1 (water=1)
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	>150°C
Flammability	Combustible liquid
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available

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Flammable Limits - Upper Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of storage and handling.

Conditions to Avoid Extremes of temperature and direct sunlight.

Incompatible Materials Strong oxidising agents.

Hazardous Decomposition Products Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including hydrocarbons, aldehydes, carbon monoxide and carbon dioxide.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data is available for this specific product, however toxicity data for constituents are stated below:

Formaldehyde:

LC50 (Inhalation, Rat): 203mg/m³

LD50 (Oral, Rat): 500mg/kg

LD50 (Dermal, Rabbit): 270mg/kg

O-Cresol:

LC50 (Inhalation, Rat): 29mg/m³

LD50 (Oral, Rat): 1,350mg/kg

LD50 (Dermal, Rat): 620mg/kg

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 Inhalation may aggravate existing respiratory disorders.

Carcinogenicity This substance is classified as a Category 3 Carcinogen by the National Occupational Health And Safety Commission (NOHSC). Formaldehyde is listed as a Group 1: Carcinogenic to humans by the International Agency for Research on Cancer (IARC). It is a known animal carcinogen and has been shown to cause cancer of the nasal passages in animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not available

Persistence / Degradability Not available

Mobility Not available

Environ. Protection Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information This material is classified as a Class 8 (Corrosive Substances) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 Dangerous Goods are incompatible in a placard load with any of the

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following:

- Class 1, Explosives
 - Class 4.3, Dangerous When Wet Substances
 - Class 5.1, Oxidising Agents
 - Class 5.2, Organic Peroxides
 - Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
 - Class 7, Radioactive Substances
- and are incompatible with food and food packaging in any quantity.

U.N. Number

1760

Proper Shipping Name

CORROSIVE LIQUID, N.O.S. - (CONTAINS FORMALDEHYDE AND O-CRESOL)

DG Class

8

Hazchem Code

2X

Packaging Method

3.8.8

Packing Group

III

EPG Number

8A1

IERG Number

37

15. REGULATORY INFORMATION

Regulatory Information

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison S2 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Poisons Schedule

S2

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'.

Hazard Category

Toxic, Corrosive

AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS), or otherwise are in compliance with the NICNAS requirements.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS

MSDS Reviewed: January 2009

Supersedes: February 1999, January 2004.

Contact Person/Point

...End Of MSDS...

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