

Material Safety Data Sheet

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Infosafe No™ 4ACIU

Issue Date : January 2009

ISSUED by PDS

Product Name : **FINALE SOLVENT**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	FINALE SOLVENT	
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	Finishing solvent for the smoothing of trimmed edges on mouthguards, impression trays and splints for improved patient comfort and acceptance.	
Other Names	<u>Name</u>	<u>Product Code</u>
	Finale Solvent 15 mL Amber Glass Bottle	34465
	Finale Solvent 1 Litre Container	34460
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)	R36/38 Irritating to eyes and skin. R45(2) May cause cancer. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67 Vapours may cause drowsiness and dizziness R68(M3) Possible risk of irreversible effects.
Safety Phrase(s)	S2 Keep out of reach of children. S23 Do not breathe gas/fumes/vapour/spray S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if you feel unwell seek medical advice immediately S53 Avoid exposure - obtain special instructions before use. S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Trichloroethylene	79-01-6	95-100 %
	Other Ingredients	Not required	Balance to 100%
	Determined Not To Be Hazardous		

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

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First Aid Facilities 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

Suitable Extinguishing Media Foam, carbon dioxide or dry chemicals.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide, hydrogen chloride gas and phosgene.

Specific Hazards Combustible liquid. This product will readily burn under fire conditions.

Hazchem Code 2Z

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, 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. Reference should also be made to all applicable local and national regulations.

Corrosiveness Not corrosive to aluminium.

Storage Temperatures < 30°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Trichloroethylene	216	40	54	10	Sk
Biological Limit Values	No biological limit allocated.					
Other Exposure Information	No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC). However, exposure standards					

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for ingredients are stated above:

As published by the National Occupational Health and Safety Commission (NOHSC):

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.

Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

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 or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as PVA. 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 colourless liquid.
Odour	Sweet odour.
Melting Point	Not available
Boiling Point	87.22°C
Solubility in Water	Insoluble
Specific Gravity	1.46 (water=1)
pH Value	Not available
Vapour Pressure	58 mmHg
Vapour Density (Air=1)	Not available
Flash Point	Not available
Flammability	Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	8%
Flammable Limits - Upper	10.5%

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	High temperature, light, moisture (formation of hydrogen chloride gas).

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Incompatible Materials	Vapours/air mixtures are explosive under intense heating. Thermal decomposition at high temperature.
Hazardous Decomposition Products	Potassium hydroxide, sodium and sodium hydroxide.
Hazardous Polymerization	Oxides of carbon, hydrogen chloride gas, phosgene.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	For Trichloroethylene: LC50 (rat, inhalation, 4hr): 12,500ppm (67 mg/l) LD50 (rat, oral): 7,200 mg/kg LD50 (rabbit, dermal): > 29,000 mg/kg
Inhalation	May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Symptoms include sneezing, coughing, wheezing, shortness of breath, headache, dizziness, nausea and vomiting.
Ingestion	May cause irritation of the gastrointestinal system. Symptoms may include pain, nausea, vomiting, dizziness and diarrhoea.
Skin	Irritating to skin. Skin contact will cause redness, itching and swelling. Trichloroethylene may also be absorbed through the skin.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Long term occupational exposures may result in kidney and liver damage as well as CNS depressant effects. Symptoms have included fatigue, headache, memory loss, decreased appetite, irritability, euphoria or depression, and difficulty in walking. Trichloroethylene is absorbed via inhalation, dermal and oral routes with the most significant uptake being through inhalation of the vapour. Absorbed Trichloroethylene is distributed throughout the body and is deposited mainly in adipose tissue and liver.
Mutagenicity	According to NOHSC this product is a category (M3) Possible risk of irreversible effects.
Carcinogenicity	According to NOHSC this product is a category (2) carcinogen - May cause cancer.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence / Degradability	Not available.
Mobility	Not available.
Environ. Protection	Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to applicable local and national regulations.
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14. TRANSPORT INFORMATION

Transport Information	This material is classified as a Class 6.1 (Toxic Substance) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 6.1 Dangerous Goods are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 3, Flammable Liquids, if the Class 3 dangerous goods are nitromethane - Class 8, Corrosive Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids And are incompatible with food and food packaging in any quantity.
U.N. Number	1710

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Product Name : **FINALE SOLVENT**

Proper Shipping Name	TRICHLOROETHYLENE
DG Class	6.1
Hazchem Code	2Z
Packaging Method	3.8.6.1RT8
Packing Group	III
EPG Number	6B7
IERG Number	37

15. REGULATORY INFORMATION

Poisons Schedule	S6
Hazard Category	Toxic, Irritant

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: January 2009 MSDS Supersedes: January 2004
Contact Person/Point	...

...End Of MSDS...

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