

Material Safety Data Sheet

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

Product Name : **FINALE SOLVENT**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name FINALE SOLVENT
Product Use Finishing solvent for the smoothing of trimmed edges on mouthgaurds, umpression trays and splints for improved patient comfort and acceptance.
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
Other Names

<u>Name</u>	<u>Product Code</u>
Finale Solvent 15 mL Amber Glass Vial	34465
Finale Solvent 1 Litre Container	34460

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Trichloroethylene	79-01-6	95 %
	Other Ingredients Determined Not To Be Hazardous	Not required	5 %

3. HAZARDS IDENTIFICATION

Classified as hazardous according to the criteria of the NOHSC.
Classified as dangerous goods according to the ADG Code.

Risk phrases:

R45(2) May cause cancer.
R40(3) Possible risk of irreversible effects.
R36/38 Irritating to eyes and skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray.
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
S53 Avoid exposure - obtain special instructions before use.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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. If irritation develops, 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. If irritation develops and persists, seek medical attention.

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).

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5. FIRE FIGHTING MEASURES

Extinguishing Media Foam, Carbon Dioxide or Dry Chemicals.

Precautions in connection with Fire Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

6. ACCIDENTAL RELEASE MEASURES

Remove sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise exposure. If possible contain the spill. Place inert, non combustible absorbent material onto spillage. Collect the material and place into a suitable labelled container. If large quantities of this material enters the environment, contact the relevant regulatory authorities.

7. HANDLING AND STORAGE

Corrosiveness Not corrosive to aluminium.

Handling Repeated or prolonged contact with this material should be avoided 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 i.e. washing hands prior to eating, drinking, smoking or going to the toilet.

Storage Store in a cool dry place out of direct sunlight. Store below 30°C. Avoid contact with incompatible materials that support combustion, such as strong oxidising agents. Avoid sparks, flames and other ignition sources. Keep containers tightly closed when not in use and when empty.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Trichloroethylene	1080	200	270	50	
Other Exposure Information	The National Occupational Health and Safety Commission (NOHSC) exposure standards for this material are listed above. However as with all chemicals, exposure should be kept to the least possible levels.					
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 (PVA 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.					

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colourless liquid with a sweet odour.

Boiling Point 87.22°C

Solubility in Water Insoluble

Specific Gravity (H2O=1) 1.46 (water=1)

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Vapour Pressure	58 mmHg
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.
Flammable Limits LEL	8%
Flammable Limits UEL	10.5%

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Hazardous Polymerization	Will not occur.
Materials to Avoid	Potassium hydroxide, sodium and sodium hydroxide.
Hazardous Decomposition Products	Oxides of carbon, hydrogen chloride gas, phosgene.
Conditions to Avoid	High temperature, light, moisture (formation of hydrogen chloride gas). Vapours/air mixtures are explosive under intense heating. Thermal decomposition at high temperature.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	For Trichloroethylene: LC50 (rat, inhalation, 4hr): 12500ppm (67 mg/l) LD50 (rat, oral): 7200 mg/kg LD50 (rabbit, dermal): > 29000 mg/kg CARCINOGENICITY: This material is classified as a Category 2 Carcinogen according to NICNAS. That is, there is sufficient evidence, on the basis of appropriate long term animal studies or other relevant information, to provide a strong presumption that human exposure to that substance may result in the development of cancer. MUTAGENICITY Mutagen Category 3, possible risk of irreversible effects. Substances which cause concern for humans owing to possible mutagenic effects, but in respect of which available information does not satisfactorily demonstrate heritable genetic damage.
Inhalation	May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated. Inhalation of high concentrations may lead to headache, drowsiness, dizziness, nausea, vomiting and difficulty in breathing. Possible risk of hypoxia in confined spaces. As with other volatile aliphatic halogenated compounds, through vapour accumulation and/or inhalation of large quantities, may cause loss of consciousness and cardiac disorders aggravated by stress and lack of oxygen: risk of mortality.
Ingestion	May cause irritation of the gastrointestinal system. Symptoms may include pain, nausea, vomiting, dizziness and diarrhoea.
Skin	Will cause skin irritation resulting in defatting of the skin, dryness, cracking and possibly lead to dermatitis. Trichloroethylene may also be absorbed through the skin.
Eye	Will cause eye irritation, resulting in redness, stinging and lachrymation.
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.

12. ECOLOGICAL INFORMATION

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

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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

This material is classified as a Class 6.1 Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. Class 6.1 Toxic substances are incompatible in a placard load with any of the following:

- Class 1, Explosives.
- Class 3, if the Class 3 dangerous goods are nitromethane.
- Class 5.1, if the Class 6 dangerous goods are fire risk substances.
- Class 5.2, if the Class 6 dangerous goods are fire risk substances.
- Class 8, 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.

ADG U.N. Number 1710
ADG Proper Shipping Name TRICHLOROETHYLENE
ADG DG Class 6.1
ADG Hazchem Code 2Z
ADG Packaging Method 5.9.6.1RT8
ADG Packing Group III
ADG EPG Number 6B7
ADG IERG Number 37

15. REGULATORY INFORMATION

Risk Phrase R36/38 Irritating to eyes and skin.
R40(3) Possible risk of irreversible effects.
R45(2) May cause cancer.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase S2 Keep out of reach of children.
S23 Do not breathe gas/fumes/vapour/spray
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Poisons Schedule S6

Hazard Category Toxic, Irritant, Dangerous for the environment

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

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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: December 1998.
...End Of MSDS...