

Safety Data Sheet

Infosafe No™ 4ACIU

Issue Date : January 2014

ISSUED by PDS

Product Name : **FINALE SOLVENT**

1. Identification

GHS Product Identifier FINALE SOLVENT
Company Name Professional Dentist Supplies Pty. Ltd. (ABN 69 088 275 576)
Address 3/8 Nicole Close Bayswater North
VIC 3153 Australia
Telephone/Fax Number Tel: +61 3 9761 6615
Fax: +61 3 9730 1073
Emergency phone number +61 3 9761 6615 bh
Recommended use of the chemical and restrictions on 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. Hazard Identification

Classification of the substance or mixture Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classification:
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 2A
Germ Cell Mutagenicity: Category 2
Carcinogenicity: Category 1
STOT Single Exposure Category 3 (narcotic)
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3
Danger

Signal Word (s)

Hazard Statement (s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects.
General P101 If medical advice is needed, have product container or label at hand.
Precautionary Statement (s) P102 Keep out of reach of children.
P103 Read label before use.

Pictogram (s)

Health hazard, Exclamation mark



Precautionary statement – Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

Safety Data Sheet

Infosafe No™ 4ACIU	Issue Date : January 2014	ISSUED by PDS
--------------------	---------------------------	---------------

Product Name : **FINALE SOLVENT**

Precautionary statement – Response
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
GENERAL:
P308+P313 IF exposed or concerned: Get medical advice/attention.
SKIN:
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
EYES:
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
INHALATION:
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
Precautionary statement – Storage
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Precautionary statement – Disposal
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Trichloroethylene	79-01-6	95-100 %

4. First-aid measures

Inhalation If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before re-use or discard. Seek medical attention.
Eye contact 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.
First Aid Facilities Eyewash 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) or a doctor at once.

5. Fire-fighting measures

Suitable extinguishing media Use carbon dioxide, dry chemical, foam, water fog or water mist.
Unsuitable Extinguishing Media Do not use water jet.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, chlorine, phosgene and hydrogen chloride gas.
Specific hazards arising from the chemical Combustible liquid. This product will readily burn under fire conditions.
Hazchem Code 2Z
Decomposition Temp. Not available
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. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Infosafe No™ 4ACIU	Issue Date : January 2014	ISSUED by PDS
--------------------	---------------------------	---------------

Product Name : **FINALE SOLVENT**

6. Accidental release measures

Personal precautions, protective equipment and 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 and waste management authorities in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Toxic substance and combustible substance. Avoid exposure. Wear appropriate protective clothing and equipment. Use in designated areas with local exhaust ventilation. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Do not smoke. Exposure without protection must be prevented. Keep containers sealed when not in use. 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 i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities 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 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.

Storage Temperatures < 30°C

8. Exposure controls/personal protection

Occupational exposure limit values No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:					
Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Trichloroethylene	10	54	40	216	Sk

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.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Biological Limit Values Biological Exposure Indices (BEI) from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows:

Determinant	Sampling Time	BEI
TRICHLOROETHYLENE [79-01-6]		
Trichloroacetic acid in urine	End of shift at end of workweek	15mg/L
Trichloroethanol in blood	End of shift at end of workweek	0.5mg/L
Trichloroethylene in blood	End of shift at end of workweek	-

Safety Data Sheet

Infosafe No™ 4ACIU	Issue Date : January 2014	ISSUED by PDS
--------------------	---------------------------	---------------

Product Name : **FINALE SOLVENT**

Appropriate engineering controls	Trichloroethylene in end-exhaled air 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 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.
Respiratory Protection	End of shift at end of workweek - 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. Physical and chemical properties

Appearance	Clear liquid
Colour	Colourless
Odour	Sweet odour
Decomposition Temperature	Not available
Melting Point	Not applicable
Boiling Point	87.22°C
Solubility in Water	Insoluble
Solubility in Organic Solvents	Not available
Specific Gravity	1.46
pH	Not available
Vapour Pressure	58 mmHg
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	Not available
Partition Coefficient: n-octanol/water	Not available
Flash Point	Not available
Flammability	Combustible
Auto-Ignition Temperature	Not available

Infosafe No™ 4ACIU	Issue Date : January 2014	ISSUED by PDS
--------------------	---------------------------	---------------

Product Name : **FINALE SOLVENT**

Flammable Limits - Lower 8%

Flammable Limits - Upper 10.5%

10. Stability and reactivity

Reactivity Reacts with incompatible materials.

Chemical Stability Stable under normal conditions of storage and handling.

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.

Incompatible Materials Potassium hydroxide, sodium and sodium hydroxide.

Hazardous Decomposition Products Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide, chlorine, phosgene and hydrogen chloride gas.

Possibility of hazardous reactions Will react with incompatible materials.

Hazardous Polymerization Will not occur.

11. Toxicological Information

Toxicology Information No toxicity data available for this material. The available acute toxicity data for the ingredients are given below.

Acute Toxicity - Oral For Trichloroethylene:
LD50 (Rat): 7,200 mg/kg

Acute Toxicity - Dermal For Trichloroethylene:
LD50 (Rabbit): > 29,000 mg/kg

Acute Toxicity - Inhalation For Trichloroethylene:
LC50 (Rat): 12,500ppm/4hr (67 mg/l)

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system.

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, drowsiness nausea and vomiting.

Skin Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory sensitisation Not expected to be a respiratory sensitiser.

Skin Sensitisation Not expected to be a skin sensitiser.

Germ cell mutagenicity Suspected of causing genetic defects. Classified as suspected to induce heritable mutations.

Carcinogenicity May cause cancer. Classified as a Known or presumed human carcinogen.

Trichloroethylene is listed as a Group 1: Carcinogenic to humans, according to International Agency for Research on Cancer (IARC).
Not considered to be toxic to reproduction.

Reproductive Toxicity Not considered to be toxic to reproduction.

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure See Section 11: STOT-single exposure.

Aspiration Hazard Not expected to be an aspiration hazard.

12. Ecological information

Safety Data Sheet

Infosafe No™ 4ACIU	Issue Date : January 2014	ISSUED by PDS
--------------------	---------------------------	---------------

Product Name : **FINALE SOLVENT**

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Do not discharge this material into 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.
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14. Transport information

Transport Information	<p>Road and Rail Transport: This material is classified as Dangerous Goods Division 6.1 Toxic Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition). Class 6 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 5, Oxidizing Substances and Organic Peroxides, if the Class 6 material is a fire risk substance - 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.</p> <p>Marine Transport (IMO/IMDG): Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. UN-No: 1710 Proper Shipping Name: TRICHLOROETHYLENE Class: 6.1 Packaging Group: III EMS No.: F-A, S-A</p> <p>Air Transport (ICAO/IATA): Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. UN-No: 1710 Proper Shipping Name: Trichloroethylene Class: 6.1 Packaging Group: III Label: Toxic Packaging Instructions (passenger & cargo): 655 Packaging Instructions (cargo only): 663</p>
U.N. Number	1710
UN proper shipping name	TRICHLOROETHYLENE
Transport hazard class(es)	6.1
Hazchem Code	2Z
Packaging Method	3.8.6.1RT8
Packing Group	III
EPG Number	6B7
IERG Number	37
IMDG Marine pollutant	No

Safety Data Sheet

Infosafe No™ 4ACIU Issue Date : January 2014 ISSUED by PDS

Product Name : **FINALE SOLVENT**

15. Regulatory information

Regulatory Information	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Poisons Schedule	Classified as a Scheduled Poisons according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). S6
AICS (Australia)	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted.

16. Other Information

Date of preparation or last revision of SDS	SDS Reviewed: January 2014 Supersedes: January 2009, January 2004
Literature References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals.
Contact Person/Point	...End Of MSDS...

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