



MATERIAL SAFETY DATA SHEET

Product: EndoVit Cryo Spray -55°C

Product Code: DL6400 – 200 mL Aerosol Can with Dispensing Tube Attached

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EndoVit Cryo Spray -55°C




Recommended use: Pulp Vitality Testing, Rapid cooling of impression materials, eg. Hydrocolloids

Contact Information Organisation: Dentalife Australia Pty Ltd

Location: Factory 9 / 505 Maroondah Highway, Ringwood VIC Australia

Postal Code: 3134 **Telephone:** +61 3 9879 1226

2. HAZARD IDENTIFICATION

GHS labeling Hazard pictograms:	  
	Flammable Gas Health Hazard
Signal word (GHS) :	DANGER
Hazard statements (GHS) : H220 – H280 – H336 - OSHA-H01 - CGA-HG04 – CGA-HG01-	EXTREMELY FLAMMABLE GAS CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED MAY CAUSE DROWSINESS OR DIZZINESS MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION MAY FORM EXPLOSIVE MIXTURES WITH AIR MAY CAUSE FROSTBITE
Precautionary statements (GHS) : P202 – P210 – P261 – P262 – P264 – P271+P403 – P280 – P377 – P381 -	Do not handle until all safety precautions have been read and understood Keep away from Heat, Open flames, Sparks, Hot surfaces. - No smoking Avoid breathing gas Do not get in eyes, on skin, or on clothing Wash hands thoroughly after handling Use and store only outdoors or in a well-ventilated place Wear protective gloves, protective clothing, eye protection, face protection Leaking gas fire: Do not extinguish, unless leak can be stopped safely Eliminate all ignition sources if safe to do so.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Composition</u>	<u>CAS No.</u>	<u>Proportion (% w/v)</u>
Hazardous Chemical		
Dimethyl Ether	115-10-6	100 %
Balance Ingredient (non-hazardous)		

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Ingestion: The risk of ingestion is negligible. If ingestion occurs seek immediate medical attention.

Eye (Contact): Open eye lids to allow liquid to evaporate. Irrigate the eye with copious amounts of water for 15 minutes. Cover eyes and protect from light. Seek medical advice.

Skin (Contact): Remove any contaminated clothing. Clothing frozen to the skin should be thawed using lukewarm water. Seek medical attention.

Inhaled: If inhaled, immediately remove person to fresh air until recovered. Inhalation can cause sensation of anaesthesia and asphyxia. Administer oxygen by qualified personnel if breathing is difficult. Give artificial respiration. Seek urgent medical attention.

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone (Australia) 13 11 26

5. FIRE FIGHTING MEASURES

Extinguishing Media

Extinguishing agent is water spray, non-fusibility foam, carbon dioxide, dry power, sand.

Fire/Explosion Hazard

Unusual Fire and Explosion Hazards: Products contains highly flammable liquefied gas under pressure.

Extinguishing Methods and Protection

- Isolate from sources of heat, naked flames or sparks.
- If leakage of a container occurs, evacuate the area. The container may release flammable vapours at ambient temperatures and readily forms a flammable mixture with air. Vapours are heavier than air and may travel long distance to a point of ignition and flash back. Specially-trained personnel can make use of jar or tube wall which is cooled and burned by water.
- Container may explode in heat or fire. Use water to keep the container cool.
- Notify emergency services.
- Fire fighters may need self-containing breathing apparatus.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

- Do not get into contact with eyes, skin, inhalation or clothing.
- Evacuate the area in case of gas leaking.
- Cut off the gas if it's safe to do so.
- Eliminate sources of ignition.
- Move the cylinder to the open air. Ventilate the area.

Environmental precautions: Prevent large spillage from entering waterways, drains or sewage system.

Methods and materials for containment and cleaning up: Clean up spills immediately. Wear suitable protective clothing. Remove spills using plenty of water and a soft sponge or towel. Material can be disposed according to local disposal authority.

For large spills or leaks in confined areas explosive conditions may occur, restrict person not wearing protective equipment from the area of spill or leak until cleanup is complete. Use water spray to dilute and dissolve. Ventilate the area of spill or leak. It might be necessary to contact specific authority for recommendation in order to dispose the product as hazardous waste.

7. HANDLING AND STORAGE

Handling: Product must be handled only by qualified personnel. See production instruction for safe use. Keep valves close if not in use. Do not spray directly onto the tooth or skin.

Storage:

- Stored in a cool place, well-ventilated dedicated warehouse. Temperatures should not exceed 50°C, prevent from direct sunlight. High temperatures may build up pressure in container.
- Suitable temperature for storage – below 25°C.
- Store away from oxidizing agent and acids.
- Keep away from static electricity power source.
- Check regularly for leaks.
- Do not store together with food.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Maximum allowable concentration: TWA 1910 mg/m₃

Respiratory protection: Generally, it doesn't need any special protection. But its suggested that if local exhaust ventilation or enclose (fume hood) is not used, approved respirators should be worn.

Hand protection: Rubber, latex or PVC gloves.

Eye protection: Safety glasses, goggles or face shield.

Body protection: Suggest wearing anti-electrostatic working clothing.

Engineering control: Sealed the container. Provide ventilation to control exposure level below airborne exposure limits. Allow procedures to avoid static discharges. Use non-spark tools and flameproof equipment.

General safety and hygiene measures: Follow good housekeeping practices and good industrial hygiene in handling this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless Liquefied Gas

Odour.....: Characteristic Peppermint Odour

Boiling Point (°C): -24.8°C

Melting point (°C): -141.4 °C

Vapour Pressure: @20 °C – 5.16 kPa
@25 °C – 4450 mm Hg

Relative Density: ~ 1. 6 (Air = 1)

Flammability Limits (%) ...: LEL: 3%
UEL: 18.6%

Auto Ignition Temperature - 235 °C

Solubility in Water (g/L) ...: Soluble in Water

Other Properties: Non Corrosive



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10. STABILITY AND REACTIVITY

- Stability:** Stable at normal condition.
- Condition to avoid:** Avoid sources of heat and ignition. / Avoid contact with incompatible materials.
- Incompatibilities :** Dimethyl Ether is not compatible with Ozone, oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine), strong acids such as hydrochloric, sulphuric , nitric acids and halogens.
- Hazardous decomposition products:** CO, CO₂
- Hazardous reactivity (polymerization):** Does not occur.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity:** LC50 308000mg/m³ (rat inhalation)
- Eye irritation or corrosion: No data
- Skin irritation or corrosion: Irritation to the skin, the liquid can cause frostbite
- Breathing or skin allergies: None expected under normal conditions of use.
- Subacute and Chronic toxicity:** No further data
- Carcinogenicity: No data
- Mutagenicity: No data
- Sensitization: No data

12. ECOLOGICAL INFORMATION

- Do not allow large quantities to reach sewage system and waterways. However, as its vaporize quickly, it is unlikely to reach waterways to cause long term effect to the environment.
- Spillages from small packaging of this product are unlikely to penetrate soils.
- Unlikely to cause long term adverse effects in the environment. The material is not expected to bioaccumulate.

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13. DISPOSAL CONSIDERATIONS

Disposal Dispose of in accordance with all local, state and federal regulations. As empty containers might contain the flammable product residues and vapor, never weld or solder empty containers.

14. TRANSPORT INFORMATION



U.N. Number:	1950	Dangerous Goods Class:	2.1
Hazchem Code:	Not applicable	Subsidiary Risk:	Not applicable
CAS Number:	See ingredients	Pack. Group.:	None Allocated

If packed in Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met:
Chemical Kit UN3316-Class 9.

15. REGULATORY INFORMATION

Poisons Schedule: Not applicable

16. OTHER INFORMATION

Product is considered safe if used as intended.

Product is intended for Healthcare Use only.

Literature References No data available.

Sources for Data No data available.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. No warranty, either expressed or implied, is made with respect to the information or the product to which the information refers. Each user must review this MSDS in the context of how the product will be handled and used in the workplace.

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