

SAFETY DATA SHEET

EDTA 15% Solution

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name:	EDTA 15% Solution
Product Codes:	DL0403 - Endosure EDTA 1.25L Cartridge Refill DL0407 - Endosure EDTA 500mL Dispenser Bottle DL0409 - Endosure EDTA 5L Cask DL0440 - Endosure EDTA 40mL Vial DLRCD5 - Endosure EDTA 5mL pre-filled syringe kit DLRCD10- Endosure EDTA 10mL pre-filled syringe kit
Recommended Use:	Endodontic irrigation solution.
Contact Information:	Dentalife Australia Pty. Ltd. Factory 9/505 Maroondah Highway Ringwood, VIC, 3134, Australia Phone: +61 3 9879 1226
Emergency Telephone Number:	+61 3 9879 1226
Poisons Information Centre:	24 hour, 7 days a week in an emergency call: 13 11 26

2. HAZARD IDENTIFICATION

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Signal Word:	Warning
Hazard Pictograms:	
Hazard Classifications:	Eye Irritation - Category 2A Acute Aquatic Hazard - Category 3 Skin Corrosion/Irritation - Category 2 Skin Sensitiser - Category 1 Chronic Aquatic Hazard Category 3
Hazard Statement:	H319 Causes serious eye irritation.

SAFETY DATA SHEET

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life with long lasting effects.

Prevention Precautionary Statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P272 Contaminated work clothing should not be allowed out of the workplace

Response Precautionary Statements:

P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage Precautionary Statements:

Not applicable

Disposal Precautionary Statements:

P501 Dispose of contents/container in accordance with local, regional, national, and international regulations.

Poison Schedule:

Not Applicable

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION %
EDTA disodium salt	139-33-3	13-17
Cetrimide	8044-71-1	0.5-1
Balance of ingredients (non hazardous)	-	80-90

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation:

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

SAFETY DATA SHEET

Skin Contact:	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Eye Contact:	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. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Ingestion:	If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. For advice, contact a Poisons Information Centre or a doctor

Indication of any immediate medical attention and special treatment needed : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. Water spray or fog- Large fires only.
Hazchem Code:	Not applicable
Fire Fighting:	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.

SAFETY DATA SHEET

Fire/Explosion Hazard:

Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).
May emit acrid smoke.
Mists containing combustible materials may be explosive.
Combustion products include:

- carbon dioxide (CO₂)
- hydrogen bromide
- nitrogen oxides (NO_x)
- other pyrolysis products typical of burning organic material

May emit poisonous fumes.
May emit corrosive fumes.

6. ACCIDENTAL RELEASE MEASURES

Minor Spills:

Remove all ignition sources.
Clean up all spills immediately.
Avoid breathing vapours and contact with skin and eyes.
Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material, or vermiculite. Wipe up.
Place in a suitable, labelled container for waste disposal.

Large Spills:

Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves
- Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so.
- No smoking, naked lights or ignition sources.
- Contain spill with sand, earth, or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services

**Dangerous Goods -Initial
Emergency Response Guide No:**

Not applicable

**Personal Precautions, Protective
Equipment and Emergency
Procedures:**

See section 8

SAFETY DATA SHEET

7. HANDLING AND STORAGE

Safe handling:

Wear protective clothing when risk of exposure occurs.
Avoid smoking, naked lights or ignition sources.
Avoid contact with incompatible materials.
When handling, DO NOT eat, drink or smoke.
Keep containers securely sealed when not in use.
Always wash hands with soap and water after handling.
Use good occupational work practice.
Observe manufacturer's storage and handling recommendations contained within this SDS.
DO NOT allow clothing wet with material to stay in contact with skin

Other information:

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Storage incompatibility:

Salts of ethylenediaminetetraacetic acid (EDTA):

- should not come into contact with strong oxidisers
- are incompatible with metals such as zinc, aluminum, carbon steel, copper, copper alloys, galvanized metals and nickel.
- in contact with metals, such as aluminum, may generate flammable hydrogen gas in contact with bases, may evolve hydrogen and oxygen
- Avoid reaction with oxidising agents



X – Must not be stored together
O – May be stored together with specific preventions
+ – May be stored together.

SAFETY DATA SHEET

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (OEL)

INGREDIENT DATA: Not Available

Emergency Limits:

Ingredient	TEEL-1	TEEL-2	TEEL-3
EDTA disodium salt	11 mg/m ³	120 mg/m ³	730 mg/m ³
EDTA disodium salt	30 mg/m ³	330 mg/m ³	2000 mg/m ³

Ingredient	Original IDLH	Revised IDLH
EDTA disodium salt	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
EDTA disodium salt	E	≤ 0.01 mg/ m ³
Cetrmidie	E	≤ 0.01 mg/ m ³

Notes:

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Material Data:

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable.

Personal Protection:



SAFETY DATA SHEET

Eye and Face Protection:

Chemical goggles.
Full face shield may be required for supplementary but never for primary protection of eyes.
Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin Protection (Hands/Feet):

Wear chemical protective gloves, e.g. PVC.
When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
· Contaminated gloves should be replaced.
As defined in ASTM F-739-96 in any application, gloves are rated as:
· Excellent when breakthrough time > 480 min
· Good when breakthrough time > 20 min
· Fair when breakthrough time < 20 min
· Poor when glove material degrades
Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
· Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
· Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Other Protection:

Overalls.
PVC Apron.
PVC protective suit may be required if exposure severe.
Eyewash unit.
Ensure there is ready access to a safety shower.

SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear, Colourless
Odour:	No specific odour
Solubility:	Soluble in water
Specific gravity:	Not available
Relative Density (water=1)	1
Vapour Pressure (20 °C):	Not available
Flash Point (°C):	Not available
Flammability Limits (%):	Not available
Autoignition Temperature (°C):	Not available
Melting Point/Range (°C):	Not available
Boiling Point/Range (°C):	Not available
pH:	7.0 – 7.4
Viscosity:	Not available
Total VOC (g/Litre):	Not available
Other Properties:	Corrosive to metals

10. STABILITY AND REACTIVITY

Chemical Stability:	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Conditions to Avoid:	See section 7
Incompatible Materials:	See section 7
Hazardous Decomposition Products:	See section 5
Hazardous Reactions:	See section 7

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation:	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
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SAFETY DATA SHEET

Skin Contact:	Skin irritation may be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
Ingestion:	Accidental ingestion of the large amount of material may be damaging to the health of the individual.
Eye Contact:	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic:	Prolonged or repeated skin contact may result in irritation.
<u>Toxicity:</u>	
EDTA 15% solution:	Not available
EDTA disodium salt:	Oral (mouse) LD50; 400 mg/kg
Cetrimide:	Not Available Eye irritation: Severe
Acute Toxicity:	No data available
Respiratory or Skin Sensitisation:	Causes respiratory or skin sensitisation
Carcinogenicity:	No data available
Reproductivity:	No data available
Mutagenicity:	No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	EDTA 15% solution: Not available For EDTA disodium salt: Fish LC50 (96 h): 20-430 mg/l
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SAFETY DATA SHEET

Daphnia LC50 (48 h): 14-100 mg/l
Green algae EC50 (96 h): 3-60 mg/l
For Cetrimide: No data available

Persistence and Degradability: EDTA disodium salt, LOW persistence in Water/Soil and Air
Bioaccumulation Potential: EDTA disodium salt, LOW bioaccumulation (LogKOW = -3.873)
Mobility in Soil : EDTA disodium salt, LOW (KOC = 1046)
Environmental Protection: Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Disposal of Contaminated Packaging: Recycle /reconditioned at an approved facility.
Environmental Regulations: Not relevant

14. TRANSPORT INFORMATION

Road and Rail Transport: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Marine Transport: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air Transport: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15. REGULATORY INFORMATION

Regulatory Information: Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP).
This material/constituent(s) is covered by the following requirements: All components of this product are listed or exempt from the Australian Inventory of Industrial Chemicals (AIC)
Product is regulated by the TGA in Australia. This product complies under ARTG- No: 160241.



SAFETY DATA SHEET

16. OTHER INFORMATION

Product is considered safe if used as intended.
Product is intended for professional dental use only.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

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