

# Material Safety Data Sheet

## EDTA Solution 10% Ethylenediaminetetraacetic Acid

Section 1 – Product and Company Identification

- 1.1 Product Name: EDTA Solution
- 1.2 Catalog Number: KOM-KIT-003
  
- Synonyms: EDTA; 10% EDTA; EDTA Solution; Partial Demineralization agent; Disodium Salt Dihydrate
  
- 1.3 Product Use: EDTA is used in order to partially demineralize the dentin particulate in order to expose additional collagen embedded in the mineral.  
  
Available size/quantity: 5ml bottle.
  
- 1.5 Manufacturer/Supplier: KometaBio Inc.  
51 6<sup>th</sup> Street  
Cresskill, NJ USA 07626
- 1.6 Contact Phone number: +1 (866) 772-2871

Section 2 – Composition / Information on Ingredients

2.1

Ingredient	Unit	CAS#	EC#
Disodium Salt Dihydrate	100 gr	6381-92-6	205-358-
Water	1 L		3None

2.2 Form: Clear Liquid Solution

Chemical Formula:  $C_{10}H_{14}N_2O_8 \cdot 2Na \cdot 2H_2O$

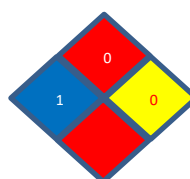
Molar Mass: 0.269 M

2.3 Use of Substance: For Clinical use only. To be handled by medical professionals and medical staff only.

HMIS

Health	1	
Flammability	0	
Reactivity	0	
Personal Protection		

NEPA



## 2.4 Precautionary Measures to Minimize Risks and Potential Hazards:

- 2.4.1 Work according to internationally accepted safety standards and protocols.
- 2.4.2 Do not handle the product until all safety precautions have been read and understood.
- 2.4.3 Read the product labels and/or product insert.
- 2.4.4 Use the necessary personal protection equipment as required before coming in to contact with the product.
- 2.4.5 Keep away from heat/hot surfaces/sparks/open flames. No smoking.
- 2.4.6 Use explosion-proof electrical/lighting/ventilation equipment.
- 2.4.7 Use only in well ventilated areas.
- 2.4.8 Dispose of any chemical residues, spills or accompanying waste property.
- 2.4.9 Wash hands thoroughly after handling.
- 2.4.10 Use of product by authorized and trained personnel only.

### Section 3 – Hazards Identification

GHS-US classification Acute toxicity (oral) Category 4  
H302 Skin corrosion/irritation Category 2  
H315 Serious eye damage/eye irritation Category 2A  
H319 Specific target organ toxicity (single exposure) Category 3  
H335 Full text of H statements : see section 16

### Section 4 – First Aid Measures

First-aid measures general :	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact :	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact :	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.
Symptoms/injuries after inhalation :	May cause respiratory irritation.
Symptoms/injuries after skin contact :	Causes skin irritation.
Symptoms/injuries after eye contact :	Causes serious eye irritation.
Symptoms/injuries after ingestion :	Swallowing a small quantity of this material will result in serious health hazard.

Section 5 – Fire Fighting Measures

**5.1. Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture**

No additional information available

**5.3. Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6 – Accidental Release Measures

6.1 Leak and Spill Procedures: Wear chemical-resistant gloves. Avoid breathing vapors. Ensure proper ventilation. Absorb spill with inert absorbent and place in closed container or hazardous waste bin for disposal. Wash area after cleaning thoroughly after clean-up is completed.

Section 7 – Handling and Storage

7.1 Handling: Should be handled by trained personnel. Keep bottles tightly sealed.  
7.2 Storage: Store at 5-30 degrees Celsius. Keep in a dry and well ventilated place. Dispose after usage.

Section 8 – Exposure Controls/Personal Protections

8.1 Engineering Controls: Use with adequate ventilation.  
8.2 Personal Protective Equipment:  
8.2.1 Respiratory Protection: Not applicable.  
8.2.2 Eye Protection: Safety glasses.  
8.2.3 Skin Protection: Lab coat, gloves.  
8.3 General Hygiene Considerations: Wash hands with soap and water after use.  
8.4 Exposure Limits:  
8.4.1 ACGIH TLV-TWA Not available  
8.4.2 OSHA PEL-TWA Not available

Section 9 – Physical/Chemical Properties

9.1 Appearance: Clear solution  
9.2 Odor: Odorless  
9.3 Physical State: Liquid  
9.4 pH: 4 -6 10% solution at 25°C  
9.5 Boiling Point: ~ 100 degrees Celsius  
9.6 Melting Point: Not applicable

9.7	Freezing Point:	Not data available
9.8	Vapor Pressure:	Not applicable
9.9	Vapor Density:	Not applicable
9.10	Specific Gravity:	Not applicable
9.11	Evaporation Rate:	Not applicable
9.12	Solubility in Water:	Not applicable
9.13	Odor Threshold:	Not applicable
9.14	Coefficient of Water/Oil Distribution:	Not applicable

#### Section 10 – Stability / Reactivity

10.1	Chemical Stability:	Stable under recommended storage specs
10.2	Conditions to Avoid:	Not available
10.3	Incompatibility (Material to avoid):	Oxidizing agent. Acid
10.4	Hazardous Decomposition/By-Product:	Not available
10.5	Hazardous Polymerization:	Not available

#### Section 11 – Toxicological Information

11.1	Effects of Short Term Exposure:	Not available
11.2	Effects of Long Term Exposure:	Not available
11.3	Irritancy of Product:	Not available
11.4	Sensitization of Product:	Not available
11.5	Carcinogenicity:	Not available
11.6	Reproductive Toxicity:	Not available
11.7	Teratogenicity and Embryotoxicity:	Not available
11.8	Mutagenicity:	Not available
11.9	Name of Toxicologically Synergistic Products:	Not available
11.10	LD50 (specify species and route):	Not available
11.11	LC50 (specify species):	Not available

#### Section 12 – Ecological Information

12.1 Not available

#### Section 13 – Disposal Considerations

13.1	Waste Disposal Method:	Disposal should be in line with existing practices at your institution/clinic. Observe all federal, provincial, and local laws. Offer surplus and non-recyclable solutions to a licensed disposal company.
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#### Section 14 – Transport Information

- 14.1 Transport Canada  
14.1.1 PIN No.: : Not available
- 14.2 U.S. Department of Transportation:  
14.2.1 Proper Shipping Name: EDTA - Disodium Salt Dihydrate  
14.2.2 Hazard Class: 1 – Slight Hazard  
14.2.3 ID. Number: Not available  
14.2.4 Packing Group  
14.2.5 Label Statement Not available

#### Section 15 – Regulatory Information

- 15.1 WHMIS Classification: Not available  
15.2 SARA 302/313: No reporting requirement.  
15.3 **Note:** This MSDS was prepared according to Regulation (EC) No. 1907/2006 and contains all the information required by these regulations.

#### Section 16 – Other Information

- 16.1 Prepared by: Quality Assurance.  
16.2 Preparation Information: Refer to internal pharmacological reports.  
16.3 This MSDS has been revised in the following section(s): NA  
16.4 Original Issue Date: October 15<sup>th</sup>, 2018  
16.5 Notice: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. KometaBio Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 16.4 of this document and may be subject to amendment by KometaBio Inc.  
16.6 **Disclaimer: THIS PRODUCT IS FOR CLINICAL USE ONLY BY PROFESSIONALLY TRAINED MEDICAL PERSONNEL.**