

Section 1 – Identification

Product Name:	MARK3 17% EDTA Solution	Manufacturer:	Cargus International, Inc. 135 North Route 9W Congers, NY 10920
Active Ingredient:	Ethylenediaminetetraacetate	Information Contacts:	(845) 267-2600 Toll Free: (888) 732-2913 Emergency Phone Numbers: US & Canada: (845) 267-2600
Family:	Endo Irrigation Solutions		
Product Use:	Root canal chelating conditioner and cleanser		
Product #:	Various		

Section 2 – Hazards Identification

Health:
Acute Toxicity, Oral – Category 5 – H303 – May be harmful if swallowed
Skin Irritant – Category 3 – H316 – Causes mild skin irritation
Eye Irritant – Category 2B – H320 – Causes mild eye irritation

Environmental:
Non-Hazardous

Physical:
Not Applicable

Label Elements:
GHS Label Elements:
The product is classified and labeled according to the Globally Harmonized System (GHS), OSHA HCS 2012
Hazard Pictograms:



Section 3 – Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	%
Water	7732-18-5	231-791-2	77%
EDTA (Disodium ethylenediaminetetraacetate dehydrate)	6381-92-6	Unlisted	17%
Proprietary Ingredients	N/A	Unlisted	6%

See Section 16 for Hazard and Precautionary Statement Key.

Section 4 – First Aid Measures

Routes of Exposure	First Aid Instructions
Eye	Immediately flush with water for 15 minutes, holding the eyelids apart. Get medical help if discomfort persists.

Skin	Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists.
Ingestion	If greater than normal dose is swallowed, do not induce vomiting. Drink large quantity of water, milk or milk of magnesia. Contact Poison Control.
Inhalation	None needed under normal use conditions. If irritation develops, move to fresh air. Get medical attention if symptoms persist.

Section 5 – Fire Fighting Measures

Extinguishing Media:	Carbon dioxide, dry chemical foam, alcohol-resistant foam. Do not use water.
Fire Fighting Instructions:	Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure, self-contained breathing apparatus with full-face mask and full protective clothing.
Unusual Hazards:	None
Combustion Products:	Ammonia and Nitrogen oxides under fire conditions.

Section 6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	Remove people from danger area. Keep away from ignition sources. Wear protective clothing, eye protection, gloves and respiratory protective device. Avoid contact with eyes and skin.
Environmental Precautions:	Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground. Report releases as required by local and national authorities.
Methods and Materials for Containment and Clean-up:	Ensure adequate ventilation. Collect using an inert non-combustible absorbent material and place in appropriate containers for disposal.

Section 7 – Handling and Storage

Precautions for Safe Handling:	Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Avoid breathing vapors. Keep product away from heat, sparks, flames and other sources of ignition. Use in accordance with package instructions.
Conditions for Safe Storage:	Store in a cool, well ventilated area away from oxidizing agents and direct sunlight. Avoid excessive heat and ignition sources. Do not store together with incompatible substances.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits:

Water	ACGIH – Not Available NIOSH – Not Available OSHA – Final PELs – Not Available
Ethanol	ACGIH – Not Available NIOSH – Not Available OSHA – Final PELs – Not Available
Engineering Controls	Use with adequate general and local ventilation to minimize exposure levels.

Personal Protective Equipment:

General Measures:	To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.133), or European Standard EN166 be conducted before using this product.
Eye/ Face Protection:	Safety glasses / goggles or splash shields are required when handling. Ensure eye bath is on hand.
Skin Protection:	Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit.
Respiratory Protection:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Always use a NIOSH or European Standard EN149 approved respirator when necessary.
Thermal Hazards:	Not Applicable

Section 9 – Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Relative Density	Viscosity	% Volatile
Clear, Colorless Liquid	Odorless	8.5	N/DA	N/DA	N/A

Boiling Point/ Freezing Point (°F/°C)	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
212/100	N/DA	N/DA	N/DA	N/DA	N/DA	N/A	Soluble

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)	Explosion Limits
N/A	N/A	N/A	N/A

Section 10 – Stability and Reactivity

Chemical Stability: Stable at ambient temperature	Incompatible Materials: Strong oxidizing agents
Possibility of Hazardous Reactions: None known	Hazardous Decomposition Products: Nitrogen Oxides, Carbon Monoxide, Carbon Dioxide, Ammonia and/or derivatives
Conditions to Avoid: Incompatible materials	

Section 11 – Toxicological Information

Primary irritant effect:

Skin Contact: May cause slight irritation.

Eye Contact: May cause eye irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: May cause respiratory and digestive tract irritation.

Additional toxicological information:

Target Organ(s): None Known.

Chronic Effects: No Information found.

Acute Toxicity: Not Toxic

Acute Toxicity Values RTECS#

CAS #7732-18-5: ZC0110000

CAS #6381-92-6: AH4410000

LD/LC50:

CAS#7732-18-5: Oral, rat: LD50=>90ml/kg; <BR

CAS#6381-92-6:<BR

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-CA Prop 65 (Occupational Safety & Health Administration)

None of the ingredients is listed.

Clinical Experience: This product has been used for root canal treatments for over 20 years. It is widely accepted and approved for endodontic practice. EDTA is considered to be a safe and effective treatment when used by dental professionals.

Section 12 – Ecological Information

Not established.

Section 13 – Disposal Considerations

Regulations:	Dispose in accordance with local and national environmental regulations.
Properties (Physical/Chemical) Affecting Disposal:	None known.
Waste Treatment Recommendations:	None needed for normal anticipated use.

Section 14 – Transport Information

UN Number: N/A	
UN proper shipping name: N/A	
Hazard Class: N/A	U.S. DPT Labeling Requirements: N/A
Packing Group: N/A	IATA Class: N/A
IATA Packing Group: N/A	Non-hazardous material, not regulated. Not a DOT controlled material.

Section 15 – Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following HAP's or ODS: <ul style="list-style-type: none"> None
Clean Water Act: Priority Pollutant	This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List: <ul style="list-style-type: none"> None
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and /or other applications as an indirect food-packaging additive.
Occupational Safety and Health Act	This product is not considered to be hazardous under the OSHA Hazard Communication Standard.
RCRA	This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261). <ul style="list-style-type: none"> None
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous substances.
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List).
SARA Title III: Section 311-312:	This product is not considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370).

SARA Title III: Section 313:	This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: <ul style="list-style-type: none"> • None
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements. <ul style="list-style-type: none"> • CAS# 7732-18-5 None of the chemicals in this material have a SNUR under TSCA.

State Regulations:

California: This product does not contain chemicals known to the State of California to cause cancer, birth defects or reproductive harm.

European/International Regulations:

European Labeling in Accordance with EC Directives
Hazard Symbol(s) and Classification: "Xi" – Irritant



EU Risk (R) and Safety (S) Phrases:

R36/37/38: Irritating to eyes, respiratory system, and skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately.
S28B: After contact with skin, wash immediately with plenty of water and soap.

WGK (Water Danger/Protection)

CAS#7732-18-5: No information available.
CAS#6381-92-6: 2

Canada – DSL/NDSL

CAS#7732-18-5 is listed on Canada's DSL List
CAS#6381-92-6 is listed on Canada's DSL List

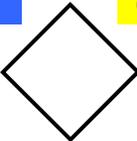
Canada – WHMIS

WHMIS: Not available

Section 16 – Other Information

Hazard Rating System (Pictograms)

NFPA:		HMIS:	
	← Flammability		

Health	→	0	←	0	0	
				Reactivity	0	0

Abbreviations and acronyms:	
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HCS:	Hazard Communication Standard (USA)
SDS:	Safety Data Sheet
ECHA:	European Chemicals Agency
OSHA:	Occupational Safety and Health Administration
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association
HMIS:	Hazardous Materials Identification System
VOC:	Volatile Organic Compounds
LC50:	Lethal Concentration, 50%
LD50:	Lethal Dose, 50%
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Xi:	Irritant
T:	Toxic
F:	Highly Flammable

Date Sources:
OSHA – www.osha.gov/dts/chemicalssampling/toc/chmcas.html
TOXNET – www.toxnet.nlm.nih.gov
ECHA – www.echa.europa.eu
EnviChem – www.echemportal.org

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THE SMART ALTERNATIVE

Safety Data Sheet

MARK3 17% EDTA SOLUTION

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materials only as directed. If the product is used as a component of another product, the information contained within the SDS may not be applicable.

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