



SAFETY DATA SHEET

according to Regulation (EC) No.

Dental Use
Date Issued : 04/2016
SDS No : M20-24
Date Revised :01/2017
Revision No : 01

Morva-Prep®

SECTION 1: Identification of The Substance/Preparation and of The Company/Undertaking

1.1 Product Identifier:

Product code: **M20-24**
Trade Name (as labeled): **Morva-Prep®**
Product Description: For Chemo-Mechanical Preparation of Root Canals

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Relevant Identified Uses: For Professional Dental Use

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: MORVABON Trading & Manufacturing Co.
Manufacturer/Supplier Address: No. 135, Seraj Bldg., Pardis Technology Park, 20th km
Damavand Road, Tehran, IRAN
Manufacturer/Supplier Telephone Number: +98(21)76251702
Manufacturer/Supplier Zip code: 1657163871
Email address: Dent.pro@morvabon.com

1.5 Distributer Name:

Distributor Address: MORVABON Trending Co.
No. 154, 7 Floor, Block C, Borjsaz Tower, Azadi Ave.,
Tehran, IRAN
Distributor Telephone Number: +98(21)66581438
Distributor Zip code: 1313655666
Email address: info@morvabon.com

1.4 Emergency Telephone Number:

Transportation Emergency Contact Number: +98(21)76251704

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture (GHS Classification):

Serious Eye Damage/Eye Irritation: Category 1
Serious Skin Corrosion/Skin Irritation: Category 1
Or

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Eye Irritant – Category 2 Specific Target Organ Toxicity, SE - Category 3 Skin Irritant, – Category 2 Skin Corrosion – Category 1B
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**2.2 Label Elements:
Hazard pictogram(s):**



Signal Word: Warning
Restricted to use by dental professional only.

Hazard statement(s)	H319 Causes serious eye irritation H335 May cause respiratory irritation H315 Causes skin irritation H314 Causes severe skin burns and eye damage
Precautionary statement(s) Prevention	P260 Do not breathe dust/fume/gas/mist/vapors/spray P264 Wash hands thoroughly after handling P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician P321 Provide specific treatment according to the situation. P363 Wash contaminated clothing before reuse
Storage	P405 Store locked up
Disposal	P501: Dispose of in compliance with governmental regulation. (EC1975L0442-20/11/2003)

2.3 Other Hazards:

Immediate concerns	None Known
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SECTION 3: Composition / Information On Ingredients

3.1 Substances:

Substances	Not Applicable
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3.2 Mixture:

Components	C.A.S. #	EINECS #	WT %	Classification according to Directive 67/548/EEC	Classification according to Regulation(EC) No 1272/2008 [CLP]
Ethylenediaminetetraacetic acid	60-00-4	205-358-3	15%	Unincorporated powder only Irritant (Xi) / R36/38	Unincorporated powder only Eye irritation; Category 2 Skin irritation; Category 2
Urea Peroxide	124-43-6		10%		

For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First Aid Measure

4.1 Description of First Aid Measures:

Prep-Rite RC, buffered EDTA suspended in a viscous gel matrix, is non-hazardous. EDTA powder may cause mild, mechanical eye irritation or mild skin irritation. Powder may present as a nuisance dust. Show this safety data sheet to medical personnel. Get medical attention in case of uncertainty.

Eye	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Skin	There may be irritation and redness at the site of contact.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
inhalation	There may be irritation of the throat with a feeling of tightness in the chest.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

Eye contact	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Ingestion contact	Wash out mouth with water. Do not induce vomiting. If conscious, give half a liter of water to drink immediately. Consult a doctor.
inhalation contact	Remove casualty from exposure ensuring one's own safety while doing so.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:()

Notes to physician	Have a comprehensive understanding of the chemical and treat symptomatically
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SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media:

Extinguishing Media	To extinguish a fire caused by or related to this chemical, use alcohol-resistant foam, Carbon Dioxide (CO ₂), or water spray. Use dry sand or soil to smother the fire.
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5.2 Special Hazards Arising from the Substance or Mixture:

Hazardous combustion products	Toxic gases can be produced due to pyrolysis or combustion process. The product is partially inflammable. / In combustion emits toxic fumes.
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5.3 Advice for Fire-Fighters:

Fire-fighting procedures	Fire-fighters should wear appropriate protective equipment. Stay a safe distance away from the fire while extinguishing. If not dangerous, remove the container from the fire. To dispose of fire water, pour it into a spacious dug lot and make sure it is not spilled or scattered outward. If not dangerous, remove the container from the fire. Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear safety glasses, gloves, and lab coat. Give special attention to chemical materials and conditions that must be avoided. / Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not attempt to take action without suitable protective clothing – see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.
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6.2 Environmental Precautions:

Water spill	Prevent the inflow of this product to waterways, drains, basements, and confined spaces. / Do not discharge into drains or rivers. Contain spillage using banding.
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6.3 Methods and Material for Containment and Cleaning up:

Method for clean up	Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method. / Dispose of the product as medical waste.
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6.4 Reference to Other Sections:

Not Applicable

SECTION 7: Handling and Storage

7.1. Precautions for safe handling:

General procedures	Must only be kept in original packaging.
Handling	Follow all prevention measures on the SDS/labels. Handle and store with care. Give special attention to chemical materials and conditions that must be avoided. Wear personal protective equipment while handling the product.
Storage	Store in a cool, dry place. Avoid exposure to direct light and heat.

7.2. Conditions for safe storage, including any incompatibilities:

Shelf Life	See product labeling.
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7.3 Specific End Use (s):

Specific End Use (s)	For Chemo-Mechanical Preparation of Root Canals
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SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

Exposure limit for Chemical Substances & Biological Exposure Limits	N/A
System Design (Proper Engineering Controls)	N/A - Ensure there is sufficient ventilation of the area.

8.2 Exposure Controls:

Occupational exposure controls	No special equipment required.
Respiratory protection	Self-contained breathing apparatus must be available in case of emergency.
Hand protection	Latex gloves
Eye protection	Protective glasses. / Tightly fitting safety goggles. Ensure eye bath is available.
Skin protection	Good personal hygiene, lab coat and gloves. Wash hands after use. / Lab coats

8.3 Environmental exposure controls

Environmental exposure controls	Follow all government regulations.
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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties:

Physical state	Cream texture
Appearance	Cream texture
Color	White
Odor	Odorless
pH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable
Vapor pressure	Not applicable
Specific gravity	Not applicable
Solubility in Water	Partially soluble
Partition coefficient (N-octanol/water)	Not applicable
Viscosity	Viscous
Vapor density	Not determined
Evaporation rate	Not determined

9.2 Other Information: Not Determined

SECTION 10: Stability and Reactivity

10.1. Reactivity:

Reactivity	Stable
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10.2 Chemical Stability:

Chemical Stability	Stable under suggested conditions of storage and use
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10.3. Possibility of hazardous reactions:

Hazardous polymerization	Not applicable
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10.4 Conditions to Avoid:

Conditions to Avoid	High heat and direct light
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10.5. Incompatible materials:

Incompatible materials	Alkali, ammonia, phenol, charcoal, iodide, metal, salt, sulfate
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10.6. Hazardous decomposition products:

Hazardous decomposition products	Carbon monoxide, carbon dioxide, ammonia
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SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects:

Acute toxicity	CETYL ALCOHOL IPR MUS LD50 1600 mg/kg IPR RAT LD50 1600 mg/kg ORL MUS LD50 3200 mg/kg ORL RAT LD50 5 g/kg SKN RBT LD50>2600 mg/kg UREA PEROXIDE ORL RAT LC50 1.232 mg/kg SKN RBT LC50>2000 mg/kg Or EDTA (CAS 6381-92-6) LD50 (rat) 2000 mg/kg Urea peroxide (CAS 124-43-6)LD50 (rat) 1230 mg/kg
Irritation and corrosiveness	May be irritating to eyes or skin on contact.
Sensitization	May cause allergic reaction on the skin
Sub-acute, sub-chronic and prolonged toxicity	None known
Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known
Empirical data	Not available

SECTION 12: Ecological Information

12.1. Toxicity:

Eco-toxicity	UREA PEROXIDE BACTERIA 48H EC50>10000 mg/1 DAPHNIA 48H EC50 2.4 mg/1 FISH 96H LC50 16.4 mg/1 Or Urea peroxide (CAS 124-43-6) Daphnia: 48 h EC50 2,4 mg/1 Fish: 96 h LC50 16,4 mg/1
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12.2. Persistence and Degradability:

Persistence and degradability	Biodegradable.
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12.3. Bio-accumulative potential:

Bio-accumulative potential	No bioaccumulation potential
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12.4. Mobility in soil

Mobility in soil	Readily absorbed into soil.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Available
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12.6. Other adverse effects

Environmental data	Negligible eco-toxicity
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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Product Disposal	If stated in the Wastes Control Act, dispose of the contents and container accordingly.
Precautions for Disposal	Dispose of the content according to the related regulations.
Disposal of Packaging	Dispose of as normal industrial waste NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport Information

14.1. UN number:

UN number	None
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14.2. UN proper shipping name:

UN proper shipping name	None
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14.3. Transport hazard class(es):

Primary hazard class/division	N/A
Hazard classification	N/A

14.4. Packing group:

Packing group	N/A
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14.5. Environmental hazards:

Marine pollutant #1	N/A
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14.6. Special precautions for user:

Any special precautions which an user should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (Special precautions which a user needs to be aware of or needs to comply outside their premises with in connection with transport or conveyance either within or outside their premises)


ADR – road	N/A
RID – rail	N/A
IMDG – sea	N/A
IATA – air	N/A

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Transport in bulk	N/A
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SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

<p>The product has to be labeled. Oxidizing. R8: Contact with combustible material may cause fire</p>	
<p>Risk Phrases: R36/38: Irritating to eyes and skin.</p>	
<p>S1 / 2 26-45: Keep locked up and out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel ill, seek medical advice immediately – if possible show the label.</p>	
<p>Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the material safety data sheet. The user’s attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions</p>	

SECTION 16: Other Information

Relevant R-phrases and/or H statements (number and full text)	<p>R36/38: Irritating to eyes and skin. R36/37/38: Irritating to eyes, respiratory system and skin H319: Eye irritation. 2. May cause eye irritation. H315: Causes skin irritation. Category 2. H335 May cause respiratory irritation. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing.</p>
Prepared by	Morvabon Trending & Manufacturing Co.
Prepared Date	5 May 2017
Revision summary	Converted MSDS to Reach SDS. Updated all sections.
General statements	<p>C - Corrosive O -Oxidizing R8: Contact with combustible material may cause fire R 34 – Causes burns N/P = Not Applicable</p>
Sources of key data	<p>MSDS of the individual ingredients of this product. Computer Database EINECS, 2005. IUCLID Data Bank. ESIS - European Chemical Substances Information System.</p>
Manufacturer disclaimer	<p>FOR DENTAL USE ONLY: Use as directed. The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate; however, the manufacturer, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.</p>