

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 06/27/2017

Version US-EN-Rev 1

Reviewed on 06/27/2017

## 1 Identification

- **Product identifier**
- **Trade name:** MI PASTE ONE
- **Relevant identified uses of the substance or mixture and uses advised against**  
Dental material  
The product is intended for professional use.  
To avoid risks for humans and environment obtain instructions.
- **Application of the substance / the mixture** Auxiliary for dental technology
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
GC America Inc.  
3737 W. 127th Street  
Alsip, IL 60803  
USA  
  
sds@gcamerica.com
- **Information department:** Regulatory Affairs
- **Emergency telephone number:**  
During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900  
Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Additional information:**  
The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.  
Do not use this material on patients with a proven or suspected milk protein allergy and/or with a sensitivity or allergy to benzoate preservatives.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard-determining components of labeling:**  
butyl 4-hydroxybenzoate
- **Hazard statements**  
May cause an allergic skin reaction.

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- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

10 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1  
 Fire = 0  
 Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1  
 Fire = 0  
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|                |                                           |        |
|----------------|-------------------------------------------|--------|
| CAS: 56-81-5   | glycerol                                  | 10-20% |
| CAS: 7757-79-1 | potassium nitrate                         | 1-5%   |
| CAS: 9004-32-4 | sodium carboxyl methyl cellulose (CMC-Na) | 1-5%   |
| CAS: 57-55-6   | propylene glycol                          | 1-5%   |
| CAS: 94-26-8   | butyl 4-hydroxybenzoate                   | < 0.5% |

- **Additional information:**

If a substance is marked with \*\*, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.  
 If symptoms persist consult doctor.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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- In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Allergic reactions
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Avoid contact with the eyes and skin.  
Wear protective clothing.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose of the collected material according to regulations.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

|                |                   |          |
|----------------|-------------------|----------|
| CAS: 56-81-5   | glycerol          | 45 mg/m3 |
| CAS: 7631-86-9 | silicon dioxide   | 18 mg/m3 |
| CAS: 7757-79-1 | potassium nitrate | 9 mg/m3  |

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|                 |                         |          |
|-----------------|-------------------------|----------|
| CAS: 57-55-6    | propylene glycol        | 30 mg/m3 |
| CAS: 13463-67-7 | titanium dioxide        | 30 mg/m3 |
| CAS: 119-36-8   | methyl salicylate       | 2.3 ppm  |
| CAS: 7664-38-2  | phosphoric acid         | 3 mg/m3  |
| CAS: 7681-49-4  | sodium fluoride         | 17 mg/m3 |
| CAS: 120-47-8   | ethyl 4-hydroxybenzoate | 31 mg/m3 |

**· PAC-2:**

|                 |                         |             |
|-----------------|-------------------------|-------------|
| CAS: 56-81-5    | glycerol                | 180 mg/m3   |
| CAS: 7631-86-9  | silicon dioxide         | 740 mg/m3   |
| CAS: 7757-79-1  | potassium nitrate       | 100 mg/m3   |
| CAS: 57-55-6    | propylene glycol        | 1,300 mg/m3 |
| CAS: 13463-67-7 | titanium dioxide        | 330 mg/m3   |
| CAS: 119-36-8   | methyl salicylate       | 25 ppm      |
| CAS: 7664-38-2  | phosphoric acid         | 30 mg/m3    |
| CAS: 7681-49-4  | sodium fluoride         | 90 mg/m3    |
| CAS: 120-47-8   | ethyl 4-hydroxybenzoate | 340 mg/m3   |

**· PAC-3:**

|                 |                         |             |
|-----------------|-------------------------|-------------|
| CAS: 56-81-5    | glycerol                | 1,100 mg/m3 |
| CAS: 7631-86-9  | silicon dioxide         | 4,500 mg/m3 |
| CAS: 7757-79-1  | potassium nitrate       | 600 mg/m3   |
| CAS: 57-55-6    | propylene glycol        | 7,900 mg/m3 |
| CAS: 13463-67-7 | titanium dioxide        | 2,000 mg/m3 |
| CAS: 119-36-8   | methyl salicylate       | 150 ppm     |
| CAS: 7664-38-2  | phosphoric acid         | 150 mg/m3   |
| CAS: 7681-49-4  | sodium fluoride         | 1,100 mg/m3 |
| CAS: 120-47-8   | ethyl 4-hydroxybenzoate | 2,100 mg/m3 |

## 7 Handling and storage

**· Handling:****· Precautions for safe handling**

Observe instructions for use.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 Avoid contact with the eyes and skin.

**· Information about protection against explosions and fires:** No special measures required.

**· Storage:****· Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

**· Information about storage in one common storage facility:** Store away from foodstuffs.

**· Further information about storage conditions:** Observe instructions for use / storage.

**· Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**  
Exposure guidelines are not relevant when product is used as intended in a household setting.
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

#### CAS: 56-81-5 glycerol

|     |                                                                                       |
|-----|---------------------------------------------------------------------------------------|
| PEL | Long-term value: 15* 5** mg/m <sup>3</sup><br>mist; *total dust **respirable fraction |
| TLV | TLV withdrawn-insufficient data human occup. exp.                                     |

#### CAS: 57-55-6 propylene glycol

|      |                                       |
|------|---------------------------------------|
| WEEL | Long-term value: 10 mg/m <sup>3</sup> |
|------|---------------------------------------|

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**  
This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

For Consumers and Retail personnel - follow product label directions and warning when using and/or handling this product.

For Distribution and Manufacturing sites - follow the procedure as listed according to your Workplace Safety protocols.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.
- **Protection of hands:** No special protective equipment required.
- **Eye protection:**  
Manufacturing sites:  
Wear safety glasses with side shields (or goggles).  
Distribution, Workplace, and Household Settings:  
No special protective equipment required
- **Body protection:** No special protective equipment required.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|               |                  |
|---------------|------------------|
| <b>Form:</b>  | Pasty            |
| <b>Color:</b> | White            |
| <b>Odor:</b>  | Product specific |

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|                                                                                                                        |                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| · <b>Odor threshold:</b>                                                                                               | Not determined.                                                                                  |
| · <b>pH-value at 20 °C (68 °F):</b>                                                                                    | 7                                                                                                |
| · <b>Change in condition</b><br><b>Melting point/Melting range:</b><br><b>Boiling point/Boiling range:</b>             | Undetermined.<br>Undetermined.                                                                   |
| · <b>Flash point:</b>                                                                                                  | Not applicable.                                                                                  |
| · <b>Flammability (solid, gaseous):</b>                                                                                | Not applicable.                                                                                  |
| · <b>Ignition temperature:</b>                                                                                         | Undetermined.                                                                                    |
| · <b>Decomposition temperature:</b>                                                                                    | Not determined.                                                                                  |
| · <b>Auto igniting:</b>                                                                                                | Product is not self-igniting.                                                                    |
| · <b>Danger of explosion:</b>                                                                                          | Product does not present an explosion hazard.                                                    |
| · <b>Explosion limits:</b><br><b>Lower:</b><br><b>Upper:</b>                                                           | 0.9 Vol %<br>0.0 Vol %                                                                           |
| · <b>Vapor pressure:</b>                                                                                               | Not determined.                                                                                  |
| · <b>Density at 20 °C (68 °F):</b><br>· <b>Relative density</b><br>· <b>Vapor density</b><br>· <b>Evaporation rate</b> | 1.29 g/cm <sup>3</sup> (10.765 lbs/gal)<br>Not determined.<br>Not determined.<br>Not determined. |
| · <b>Solubility in / Miscibility with Water:</b>                                                                       | Fully miscible.                                                                                  |
| · <b>Partition coefficient (n-octanol/water):</b>                                                                      | Not determined.                                                                                  |
| · <b>Viscosity:</b><br><b>Dynamic:</b><br><b>Kinematic:</b>                                                            | Not determined.<br>Not determined.                                                               |
| · <b>Solvent content:</b><br><b>Organic solvents:</b><br><b>Water:</b><br><b>VOC content:</b>                          | 20.1 %<br>41.0 %<br>2.1 %                                                                        |
| <b>Solids content:</b><br>· <b>Other information</b>                                                                   | 21.6 %<br>No further relevant information available.                                             |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable at ambient temperature.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No further relevant information available.
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|                  |    |
|------------------|----|
| silicon dioxide  | 3  |
| titanium dioxide | 2B |
| sodium fluoride  | 3  |

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Carcinogenic categories' legend:**

IARC Group 1: The agent is carcinogenic to humans.  
 IARC Group 2A: The agent is probably carcinogenic to humans.  
 IARC Group 2B: The agent is possibly carcinogenic to humans.  
 IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.  
 IARC Group 4: The agent is probably not carcinogenic to humans.  
 NTP K: Known to be human carcinogen.  
 NTP R: Reasonably anticipated to be human carcinogen.

- **Repeated dose toxicity.** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
 No further relevant information available.  
 No further relevant information available.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>UN-Number</b>                                                               |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               | Void            |
| · <b>UN proper shipping name</b>                                                 |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               | Void            |
| · <b>Transport hazard class(es)</b>                                              |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>                                               |                 |
| · <b>Class</b>                                                                   | Void            |
| · <b>Packing group</b>                                                           |                 |
| · <b>DOT, ADR, IMDG, IATA</b>                                                    | Void            |
| · <b>Environmental hazards:</b>                                                  |                 |
| · <b>Marine pollutant:</b>                                                       | No              |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | Void            |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendments and Reauthorization Act)**

#### · **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

#### · **Section 313 (Specific toxic chemical listings):**

potassium nitrate

phosphoric acid

#### · **TSCA (Toxic Substances Control Act):**

glycerol

silicon dioxide

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|                                           |
|-------------------------------------------|
| D-glucitol                                |
| potassium nitrate                         |
| sodium carboxyl methyl cellulose (CMC-Na) |
| propylene glycol                          |
| xylitol                                   |
| titanium dioxide                          |
| Sodium N-lauroyl sarcosinate              |
| butyl 4-hydroxybenzoate                   |
| propyl 4-hydroxybenzoate                  |
| sodium saccharin                          |
| methyl salicylate                         |
| phosphoric acid                           |
| sodium fluoride                           |
| water, distilled                          |

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

|                  |    |
|------------------|----|
| titanium dioxide | A4 |
| sodium fluoride  | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

|                  |
|------------------|
| titanium dioxide |
|------------------|

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**

butyl 4-hydroxybenzoate

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other information

- **Department issuing SDS:** Regulatory Affairs
- **Contact:**  
Regulatory Affairs  
Telephone No. +1 (708) 597-0900  
sds@gcamerica.com
- **Date of preparation / last revision** 06/27/2017 / -
- **Abbreviations and acronyms:**  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
HCS: Hazard Communication Standard (USA)  
MSDS: Material Safety Data Sheet  
SDS: Safety Data Sheet  
ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)  
ECHA: European Chemicals Agency  
OSHA: Occupational Safety and Health Administration (USA)  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Skin Sens. 1: Skin sensitisation – Category 1
- **Sources**
  - Manufacturers' MSDSs/SDSs
  - OSHA (<https://www.osha.gov/dts/chemicalsampling/toc/chmccas.html>)
  - TOXNET (<http://toxnet.nlm.nih.gov/>)
  - ECHA (<http://echa.europa.eu/>)
  - EnviChem ([www.echemportal.org](http://www.echemportal.org))
- **Notes:**  
CAS Registry Number is a Registered Trademark of the American Chemical Society.  
CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.
- **\* Data compared to the previous version altered.** This version replaces all previous versions.
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