# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 072088540

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072088516 072088532 072088557 072088565 072088581 273012205



**MS002614** 

#### MI PASTE PLUS material safety data sheet

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#### SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR

GC AMERICA INC. 3737 West 127th St. Alsip, Illinois, 60803 Telephone: 708-597-0900 Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T. Transportation Emergency No. 800-424-9300

#### COMMON NAME: MI PASTE PLUS

**PRODUCT USE:** Topical paste with bio-available calcium and phosphate

The following information is provided with regard to the toxicity and hazards the pure components present in this product. SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Glycerol	56-81-5	TWA=10 mg/m <sup>3</sup>	N.E.	10-20
•		(as mist) (ACGIH)		
Propylene glycol	57-55-6	TWA=10mg/m <sup>3</sup>	LD50-20.0-33.7g/kg	0-2
		Dow (mist)	(oral rat)	
			LC50=N.E.	
Sodium fluoride	7681-49-4	5.6 g/Kg	LD50=2,000mg/kg	0.2
			(oral rat)	
CPP-ACP	691364-49-5	N.E.	N.E.	5-10
D-glucitol	50-70-4	N.E.	N.E.	0-5
Silicon dioxide	7631-86-9	TLV=10mg/m <sup>3</sup>	LD50=>10,000mg/kg	0-2
		total dust (ACGIH)	(oral-rat)	
		PEL=80mg/m <sup>3</sup>	LC50=N.E.	
		(OSHA)		
Titanium dioxide	13463-67-7	TWA=10mg/m <sup>3</sup>	N.E.	0-2
		(respirable) (ACGIH)		
Ethyl-4-hydroxybenzoate	120-47-8	N.E.	N.E	< 0.1
Butyl-parahydroxybenzoate	94-26-8	N.E.	N.E	< 0.1
Propyl-4-hydroxybenzoate	94-13-3	N.E.	N.E.	< 0.1

#### SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	100°C	SPECIFIC GRAVITY:	N.E.
VAPOR PRESSURE:	23.0 hPa	MELTING POINT:	1350°C
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER	: partially miscible	ODOR THRESHOLD:	N.E.
COEFFICIENT OF OIL/W	ATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR:	white paste with sweet odor

#### SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 160°C

FLAMMABLE LIMITS: N.A.

**EXTINGUISHING MEDIA:** Chemical foam, carbon dioxide and dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water can be used to cool fire-exposed container and protect personnel. Use of normal protective equipment is recommended.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: None

#### **SECTION 5 - REACTIVITY DATA**

STABILITY:	Stable
POLYMERIZATION:	Will Not Occur 🛛
CONDITIONS TO AVOID:	Avoid high heat and humidity.
<b>INCOMPATIBILITY</b> (Mater	ials to Avoid): None
HAZARDOUS DECOMPOS	SITION OR BY-PRODUCTS: None

Unstable Unstable



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## **MI PASTE PLUS**

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						

HEALTH HAZARD (Acute and Chronic): CPP-ACP is derived from milk casein, it should not be consumed by patients with milk

protein allergies or hydroxybenzoate allergies.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

#### EMERGENCY FIRST AID PROCEDURES:

**MS002614** 

**EYECONTACT**: Flush eyes with plenty of water, lifting lower and upper eyelids. If irritation persists, seek medical attention. **SAN CONTACT**: Remove with wet gauze or tissue. If irritation develops, seek medical attention. **INGESTION:** Do not induce vomiting. Give plenty of water. If irritation develops, seek medical attention.

**INHALATION:** Supply fresh air; consult doctor in case of complaints.

#### SECTION 7 - PRECAUTIONS for SAFE HANDLING and USE

**IN CASE OF RELEASE OR SPILL:** Cover with absorbent material.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal guidelines.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store at room temperature. Keep container closed when not in use. Keep away from heat and high humidity.

SECTION 8 -	CONTROL MEASURES			
RESPIRATORY F	<b>PROTECTION:</b> None required.			
VENTILATION:	Local Exhaust - Yes	Mechanical:	Special:	Other:
EYE PROTECTIC OTHER PROTEC WORK/HYGIENIC	OVES: Disposable vinyl gloves DN: Safety glasses recommende TIVE CLOTHING OR EQUIPMENT C PRACTICE: Observe good hyge PREPARATION INFORMATION	ed. r: N.A. gienic work practices.		
This data is suppl	lied to comply with OSHA Hazard	Communication Standard 29 CFI	R 1910,1200 and W.H.M.I.S. (	CPR.
DATE: <u>16 Apr</u> REVIEWED: <u>2</u>	ril 2007 28 February 2012			
N.A. = NOT API N.E. = NOT EST	-			

The information herein is given in good faith but no warranty expressed or implied is made.

		NFPA		
FIRE – 0	TOXICITY - 0	<b>REACTIVITY</b> – 0	SPECIAL -	



C. TO USHA HCS 29 CFR 1910.12

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Version US-EN-Rev 1

Reviewed on 02/18/2015

**1** Identification

· Product identifier

• Trade name: GC MI Paste Plus (Flavors: Melon [M], Mint [I], Strawberry [S], Tutti-Frutti [T], and Vanilla [V])

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

#### <sup>·</sup> Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

• 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 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Additional information:
- 10 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system:
- NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

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Trade name: GC MI Paste Plus (Flavors: Melon [M], Mint [I], Strawberry [S], Tutti-Frutti [T], and Vanilla [V])

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### · HMIS-ratings (scale 0 - 4)

HEALTH0Health = 0FIRE0Fire = 0REACTIVITY0

· 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	s components:	
56-81-5	glycerol	10-20%
9004-32-4	sodium carboxyl methyl cellulose (CMC-Na)	1-5%
57-55-6	propylene glycol	1-5%
7681-49-4	sodium fluoride	< 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:	
No special measures required.	
If symptoms persist consult doctor.	
After inhalation:	
Supply fresh air; consult doctor in case of complaints.	
In case of unconsciousness place patient stably in side position for transportation.	
After skin contact:	
Rinse with warm water.	
If symptoms persist consult doctor.	
After eye contact:	
Rinse opened eye for several minutes under running water. If symptoms persist, co	onsult 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	
No further relevant information available.	
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Trade name: GC MI Paste Plus (Flavors: Melon [M], Mint [I], Strawberry [S], Tutti-Frutti [T], and Vanilla [V])

• **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.

Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to penetrate the ground/soil.
 In case of seepage into the ground inform responsible authorities.

- 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.

## 7 Handling and storage

- · Handling:
- Precautions for safe handling Observe instructions for use.
- · 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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Trade name: GC MI Paste Plus (Flavors: Melon [M], Mint [I], Strawberry [S], Tutti-Frutti [T], and Vanilla [V])

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#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

#### · Control parameters

· Components with limit values	that require monitoring at the workplace:

#### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

- mist; \*total dust \*\*respirable fraction
- TLV TLV withdrawn-insufficient data human occup. exp.

#### 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
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Wash hands before breaks and at the end of work.

- **Breathing equipment:** Suitable respiratory protective device recommended.
- Protection of hands: Protective gloves
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

# Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Safety glasses

<ul> <li>Information on basic physical and</li> <li>General Information</li> </ul>	chemical properties	
Appearance:		
Form:	Pasty	
Color:	White	
· Odor:	Product specific	
· Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	

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Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	Not determined.
· Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wa	ater): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	22.0 %
Water:	56.1 %
VOC content:	2.0 %
Solids content:	21.6 %
Other information	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.

· 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.

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- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- silicon dioxide
- titanium dioxide
- sodium fluoride
- 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.

## 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:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.

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· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

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

## 15 Regulatory information

 $^{\cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\cdot}$  SARA (Superfund Amendments and Reauthorization Act)

<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredient is listed.	
• Section 313 (Specific toxic chemical listings):	
phosphoric acid	
· TSCA (Toxic Substances Control Act):	
glycerol	
D-glucitol	
sodium carboxyl methyl cellulose (CMC-Na)	
propylene glycol	
silicon dioxide	
titanium dioxide	
xylitol	
phosphoric acid	
sodium fluoride	
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sodium saccharin water, distilled

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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

titanium dioxide

sodium fluoride

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

titanium dioxide

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

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

## **16 Other information**

· Department issuing MSDS: Regulatory Affairs
· Contact:
Regulatory Affairs
Telephone No. +1 (708) 597-0900
sds@gcamerica.com
· Date of preparation / last revision 02/24/2015 / -
• •
· 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
· Sources
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Manufacturers' MSDSs/SDSs

OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)

- TOXNET (http://toxnet.nlm.nih.gov/)
- ECHA (http://echa.europa.eu/)
- EnviChem (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.

#### · Disclaimer:

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