

Printing date 12/11/2018

Version US-EN-Rev 1

Reviewed on 12/11/2018

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1 Identification
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- · Product identifier
- Trade name: G-CEM Try-In Paste (Shades: A2, Bleach, Opaque, and Translucent)
- 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 manufacture of dental prothesis
- · 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

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.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Hazard not otherwise classified (HNOC): None known.
- · Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



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· 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:

75 - < 100%

CAS: 56-81-5 glycerol • 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).

For the wording of the listed hazard phrases refer to section 16.

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, 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** No further relevant information available.
- 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

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(Contd. of page 2) · Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available. 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. 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** Protective Action Criterion (PAC); Protective Action Criteria (PACs); Lower Explosive Limit (LEL) * indicates the PAC value is between 10% and up to 50% of the LEL (10% LEL < PAC < 50% LEL). ** indicates the PAC value is between 50% and up to 100% of the LEL (50% LEL ≤ PAC < 100% LEL). *** indicates the PAC value is at 100% or more of the LEL (PAC ≥ LEL). excerpt from Introduction to PAC Table 2 - PAC Rev. 29 - May 2016 · PAC-1: CAS: 56-81-5 45 mg/m³ glycerol CAS: 112945-52-5 18 mg/m³ silicon dioxide, amorphous CAS: 1344-28-1 aluminum oxide 15 mg/m³ CAS: 13463-67-7 titanium dioxide 30 mg/m³ colorant** 15 mg/m³ · PAC-2: CAS: 56-81-5 180 mg/m³ glycerol CAS: 112945-52-5 silicon dioxide, amorphous 100 mg/m³ CAS: 1344-28-1 170 mg/m³ aluminum oxide CAS: 13463-67-7 titanium dioxide 330 mg/m³ 360 mg/m³ colorant** · PAC-3: CAS: 56-81-5 1,100 mg/m³ glycerol CAS: 112945-52-5 silicon dioxide, amorphous 630 mg/m³ CAS: 1344-28-1 990 mg/m³ aluminum oxide CAS: 13463-67-7 2,000 mg/m³ titanium dioxide (Contd. on page 4)

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2,200 mg/m³

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colorant**

7 Handling and storage

- · Handling:
- Precautions for safe handling Observe instructions for use.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · 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.

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:

CAS: 56-81-5 glycerol

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

· 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:
- Manufacturing sites:

Wear safety glasses with side shields (or goggles). Distribution, Workplace, and Household Settings:

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No special protective equipment required

9 Physical and chemical prope	erties
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Pasty
Color:	Cream colored
· Odor: · Odor threshold:	Odorless Not determined.
· pH-value:	Not determined.
•	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
 Decomposition temperature: 	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	0.9 Vol %
Upper:	0.0 Vol %
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	88.2 %
VOC content:	0.00 %
Solids content:	11.0 %
· Other information	No further relevant information available.

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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.
- 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.
- · 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, amorphous	3
titanium dioxide	2B
colorant**	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.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.

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- 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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:

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

- · 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:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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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):
- aluminum oxide
- TSCA (Toxic Substances Control Act):
- glycerol
- aluminum oxide
- titanium dioxide
- colorant**
- terephthalate component**
- organic fluorophore**

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

- aluminum oxide
- titanium dioxide

colorant**

• ACGIH carcinogenic classifications' legend:

- A1: confirmed human carcinogen
- A2: suspected human carcinogen
- A3: confirmed animal carcinogen with unknown relevance to humans
- A4: not classifiable as a human carcinogen
- A5: not suspected as a human carcinogen

• 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 SDS: Regulatory Affairs
- Contact: Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com
- · Date of preparation / last revision 12/11/2018 / -
- Abbreviations and acronyms: GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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(Contd. of page 8) 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) PAC: Protective Action Criterion (USA) PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit OSHA-Ca: Occupational Safety and Health Administration - Carcinogens or potential carcinogens regulated (USA) NIOSH-Ca: National Institute for Occupational Safety and Health - Carcinogen List (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 TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Sources 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. · Disclaimer: The information contained herein is believed to be true and accurate. However, all statements. recommendations or suggestions are made without any guarantee, representation or warranty, express

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