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Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

- **1** Identification
- · Product identifier
- · Trade name: COE-SEP
- · 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 identification

· Classification of the substance or mixture

Specific Target Organ Toxicity - Repeated Exposure H372 Causes damage to organs through - Category 1 prolonged or repeated exposure.

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

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

Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: ethyl alcohol
- · Hazard statements

Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Get medical advice/attention if you feel unwell.

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

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 Classification system: NFPA ratings (scale 0 - 4) 			
Health = 2 Fire = 2 Reactivity = 0			
 HMIS-ratings (scale 0 - 4) 			
HEALTH2Health = 2FIRE2Fire = 2REACTIVITY0Reactivity = 0			

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

-	-	
CAS: 64-17-5	ethyl alcohol	5 - 10% w/w
CAS: 56-81-5	glycerol	1 - 5% w/w
	-•	

· 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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:

Immediately wash with water and soap and rinse thoroughly.

- Rinse with warm water.
- Seek medical treatment.

If symptoms persist consult doctor.

- · After eye contact: Protect unharmed eye.
- 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

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Indication of any immediate medical attention and special treatment needed No further relevant information available.

· Extinguishing media

5 Firefighting measures

- · 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:

Mouth respiratory protective device. 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.

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.
- · 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.

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

Keep receptacle tightly sealed.

• 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: 64-17-5 ethyl alcohol

EL Short-term value: 1000 ppm

EV Long-term value: 1,900 mg/m³, 1,000 ppm

CAS: 56-81-5 glycerol

EL Long-term value: 10* 3** mg/m³ *mist; **mist, respirable

EV Long-term value: 10 mg/m³

• 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.

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.

· 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

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9 Physical and chemical prope	erties
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	Viscous
Color: · Odor:	Colorless Alcohol-like
· Odor threshold:	Not determined.
· pH-value:	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:	15 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:	11.5 %
Water:	86.8 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable at ambient temperature.

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· 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: Reacts with strong oxidizing agents.
- · Hazardous decomposition products: Carbon monoxide

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. · Experience with humans: May cause damage to central nervous system. May cause damage to lungs. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Very toxic · Carcinogenic categories · IARC (International Agency for Research on Cancer) ethyl alcohol 1 NTP (National Toxicology Program) 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. · Additional carcinogenic information: The substance ethyl alcohol, also known as ethanol, is listed by IARC as a Group 1 carcinogen but in alcoholic beverage consumption. IARC Volume 100E (2012) "Personal Habits and Indoor Combustions" stated in its monograph "Consumption of Alcoholic Beverages" the following evaluation: "Ethanol in alcoholic beverages is carcinogenic to humans (Group 1)." GC products are not consumable alcoholic beverages. · Repeated dose toxicity. No further relevant information available. · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available. No further relevant information available.

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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 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.

14 Transport information

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

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):
- pentasodium triphosphate
- TSCA (Toxic Substances Control Act):
- ethyl alcohol
- glycerol
- potassium alginate
- pentasodium triphosphate
- methyl 4-hydroxybenzoate
- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)
- All ingredients are listed.
- · Canadian Ingredient Disclosure list (limit 0.1%)
- ethyl alcohol
- Canadian Ingredient Disclosure list (limit 1%)
- None of the ingredients is listed.
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



- · Signal word Danger
- Hazard-determining components of labeling: ethyl alcohol
- · Hazard statements
- Causes damage to organs through prolonged or repeated exposure.
- · Precautionary statements
 - Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Get medical advice/attention if you feel unwell.

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

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· 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 03/13/2018 / -
 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)
LEL: Lower Explosive Limit UEL: Upper Explosive Limit
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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.
\cdot * Data compared to the previous version altered. This version replaces all previous versions.
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