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1 Identification

- · Product identifier
- Trade name: COE-COMFORT (Liquid)

• 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 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

Flam. Liq. 2H225Highly flammable liquid and vapor.STOT RE 1H372Causes damage to organs through prolonged or repeated exposure.Aquatic Chronic 2H411Toxic to aquatic life with long lasting effects.Acute Tox. 4H302Harmful if swallowed.Skin Sens. 1H317May 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.

· 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: benzyl benzoate

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		(Contd. of page 1
ethyl alcoho		
peppermint		
Hazard stat		
Hignly flam Harmful if s	nable liquid and vapor.	
	an allergic skin reaction.	
		blonged or repeated exposure.
	atic life with long lasting ef	
	ary statements	
		nes/hot surfaces No smoking.
	the dust/fume/gas/mist/vap	
	ctive gloves / eye protection	
		ly all contaminated clothing. Rinse skin with water/shower.
	ell-ventilated place. Keep o	
Classificati		dance with local/regional/national/international regulations.
	gs (scale 0 - 4)	
3	Health = 1	
	Fire = 3	
	Reactivity = 0	
HMIS-rating	gs (scale 0 - 4)	
HEALTH 1	Health = 1	
FIRE 3		
REACTIVITY		
	-	
Other haza		
Descrites f	PBT and vPvB assessme	nt
Results of PBT: Not a vPvB: Not a	•	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous	s components:	
120-51-4	benzyl benzoate	50-70%
64-17-5	ethyl alcohol	5-10%
8006-90-4	peppermint oil	< 1%
128-37-0	butylated hydroxytoluene (BHT)	< 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).

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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.

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. Do not use mouth to mouth or mouth to nose resuscitation.

- 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:

Do not induce vomiting; immediately call for medical help.

- Rinse out mouth and then drink plenty of water.
- · 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, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- · 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.
 Keep away from ignition sources Avoid contact with the eyes and skin.
 Wear protective clothing.
 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:

Ensure adequate ventilation.

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(Contd. of page 3) 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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. · Storage: · Requirements to be met by storerooms and receptacles: Store in a cool location. 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. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place. · 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:

64-17-5 ethyl alcohol

PEL Long-term value: 1900 mg/m³, 1000 ppm

REL Long-term value: 1900 mg/m³, 1000 ppm

TLV Short-term value: 1880 mg/m³, 1000 ppm

• 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.

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· Vapour density

Water:

· Evaporation rate

· Solubility in / Miscibility with

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 Protection of hands: Protective gloves Material of gloves The selection of the suitable gloves of quality and varies from manufacture substances, the resistance of the glove be checked prior to the application. Penetration time of glove material 	ntaminated clothing. iratory protective device recommended.
9 Physical and chemical prope	orties
 Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold: 	chemical properties Liquid Clear Characteristic Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 96 °C (205 °F)
· Flash point:	20 °C (68 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density at 20 °C (68 °F): Relative density Vancus density 	1.03 g/cm ³ (8.595 lbs/gal) Not determined.

Not determined.

Not determined.

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Partition coefficient (n-octanol/w	rater): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	8.3 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	7.4 %	
VOC content:	7.4 %	
Solids content:	30.0 %	
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:

120-51-4 benzyl benzoate

Oral LD50 500 mg/kg (rat (f+m))

Dermal LD50 4000 mg/kg (rat (f+m))

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 liver. May cause damage to lungs.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

ethyl alcohol

isopropyl alcohol

butylated hydroxytoluene (BHT)

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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· 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.

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.

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.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

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

· UN-Number · DOT, ADR, IMDG, IATA	UN1170
UN proper shipping name DOT ADR IMDG, IATA	Ethanol solutions 1170 Ethanol solutions (Ethyl alcohol solutions) ENVIRONMENTALLY HAZARDOUS ETHANOL SOLUTION
Transport hazard class(es)	
DOT, ADR, IMDG, IATA Class	3 Flammable liquids
Packing group DOT, ADR, IMDG, IATA	11
Environmental hazards: Marine pollutant:	No
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-D
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	I lof Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN1170, Ethanol solutions (Ethyl alcohol solutions ENVIRONMENTALLY HAZARDOUS, 3, II

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 ingredient is listed.

· Section 313 (Specific toxic chemical listings):

isopropyl alcohol

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

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Carcinogenic categories · EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) ethyl alcohol A3 isopropyl alcohol A4 butylated hydroxytoluene (BHT) A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labeling: benzyl benzoate ethyl alcohol peppermint oil · Hazard statements Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/sprav. Wear protective gloves / eye protection / face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. **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
- \cdot 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

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SDS: Safety Data Sheet 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
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
· 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:
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