

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

		4.0	-	4.0	
1 6	en	tit	ica	Ť1	on
			i uu		

- · Product identifier
- · Trade name: COE-SOFT™ PRINT (Bonding Agent)

• 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

Telephone No. +1 (708) 597-0900 SDS.gcamerica@gc.dental

· Information department: Regulatory Affairs

· Emergency telephone number:

During normal opening times (Monday–Friday 8:00 AM–5:00 PM Central Time): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

Flammable Liquids 2

Eve Irritation 2A

H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

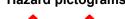
· Additional information:

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

Exempt from labeling – medical devices and drugs do not require labeling according to HCS 2012. The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms





· Signal word Danger

- Hazard-determining components of labeling: ethyl acetate
- · Hazard statements

H225 Highly flammable liquid and vapor.

(Contd. on page 2)

US

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

	(Contd. of page 1)	
	rious eye irritation.	
H336 May cause	drowsiness or dizziness.	
Precautionary s	tatements	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P303+P361+P35	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P305+P351+P33	88 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
 Hazard(s) not of 	therwise classified (HNOC): None known.	
 Additional information 19.9 % of the mix 	mation: xture consists of component(s) of unknown toxicity.	
Other hazards		

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

Printing date 03/10/2025

• **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 141-78-6 ethyl acetate

75 – < 100%

Additional information:

Concentrations of dangerous components are expressed in percent by weight (% w/w).

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.

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:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

(Contd. on page 3)

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 2)

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
- Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide
- 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.

Upon contact with water, a transparent film of polymer with iridescent areas precipitates and floats on the liquid. The polymeric film ranges from transparent to translucent, depending upon collection method. This polymeric film will adhere to surfaces if left to dry and may require scraping to remove.

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. Do not allow to penetrate the ground/soil. • Methods and material for containment and cleaning up:
- Ensure adequate ventilation. 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.

(Contd. on page 4)

US

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 3) Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin. Use caution when opening. The product is a highly flammable liquid and vapor; keep away from heat, hot surfaces, sparks, flames and other ignitions sources. Use with adequate ventilation. Do not ingest or breathe vapor. Personal Protective Equipment (PPE) such as gloves and safety eyewear are always to be worn. Check bottle with liquid before using. Make sure that upon removal of cap, the bottle opening has no obstructions. Some bottles may contain an insert (as a seal). The insert must be in the cap and not obstructing opening. In case of contact, flush eyes with water for at least 15 minutes. Get prompt medical attention. If overcome by vapor, move to fresh air. If breathing is difficult, administer oxygen and seek medical attention. If swallowed, dilute by giving water to drink and seek medical attention. In case of contact with skin wash thoroughly with soap and water. Store securely. Store in a well ventilated place. Keep cool. Dispose of all waste according to local regulations. · 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. · Conditions for safe storage, including any incompatibilities · 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 section 7.

· Control parameters

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

CAS: 141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m³, 400 ppm

REL Long-term value: 1400 mg/m³, 400 ppm

TLV Long-term value: 400 ppm

Regulatory information

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

• Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 5)

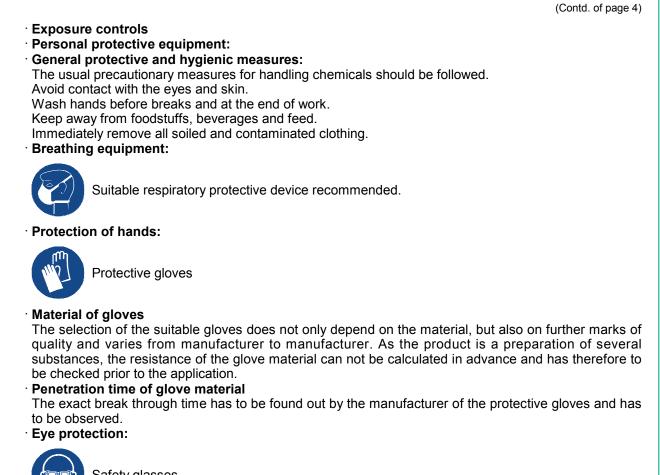
US

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)



Physical and chemical prope	erties	
nformation on basic physical and		
General Information	onomiou properties	
Appearance:		
Form:	Liquid	
Color:	Colorless	
Ddor:	Sweet, fruity	
Odor threshold:	Not determined.	
oH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	76 – 78 °C (168.8 – 172.4 °F)	
Flash point:	-1 °C (30.2 °F)	

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

	(Contd. of page :		
· Flammability:	Highly flammable.		
· Auto igniting:	Undetermined.		
· Decomposition temperature:	Not determined. Product is not self-igniting.		
· Ignition temperature:			
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.		
· Explosion limits:			
Lower:	2.1 Vol %		
Upper:	11.5 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:	Soluble, but precipitated film of polymer is insoluble. Se section 5 for further details.		
· Partition coefficient (n-octanol/w	ater): Not determined.		
· Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
· Solvent content:			
Organic solvents:	80.0 %		
VOC content:	80.00 %		
Solids content:	20.0 %		
· 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: In case of fire, the following can be released: Carbon dioxide Carbon monoxide

(Contd. on page 7)

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 6)

· Informati	on on toxicological effects
· Acute to	
· LD/LC50	values that are relevant for classification:
CAS: 141	-78-6 ethyl acetate
Oral	LD50 4935 mg/kg (rabbit)
Inhalative	LC50/4 h 1600 mg/l (rat (f+m))
· Primary i	rritant effect:
	in: No irritant effect.
	e: Irritating effect.
	tion: No sensitizing effects known. Is related to the physical, chemical and toxicological characteristics:
	relevant information available.
	to chronic toxicity: No further relevant information available.
	I measures of toxicity:
No ATEr	nix is calculated because ingredients of the mixture with LD50 or LC50 values are
	ed relevant because of low concentration, a less severe acute toxicity category, or be
(ATEMIX	s the acute toxicity estimate of the mixture.)
· Addition	Il toxicological information: Irritant
· Carcinog	enic categories
· IARC (Int	ernational Agency for Research on Cancer)
dibenzoyl	
· NTP (Nat	ional Toxicology Program)
None of t	ne ingredients is listed.
· OSHA-Ca	(Occupational Safety & Health Administration)
	ne ingredients is listed.
	enic categories' legend:
	up 1: The agent is carcinogenic to humans.
	up 2A: The agent is probably carcinogenic to humans.
	up 2B: The agent is possibly carcinogenic to humans.
	up 3: The agent is not classifiable as to its carcinogenicity to humans.
	up 4: The agent is probably not carcinogenic to humans.
	nown to be human carcinogen.
	easonably anticipated to be human carcinogen.
	Il carcinogenic information: No further relevant information available.
	dose toxicity. No further relevant information available.
	cts (carcinogenicity, mutagenicity and toxicity for reproduction)
	relevant information available.
	I mutagenicity No further relevant information available.
	enicity No further relevant information available.
	ctive toxicity No further relevant information available.
	arget organ toxicity - single exposure No further relevant information available.
	arget organ toxicity - repeated exposure No further relevant information available. n hazard No further relevant information available.
	II HAZALU INO TULLIEL LELEVALLI HIOHIMALION AVAILADIE.

(Contd. on page 8)

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 7)

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 (German regulation, AwSV) (Self-assessment): slightly hazardous to 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.

Notice that the use of water also precipitates a polymeric film that is insoluble in water. This polymeric film will adhere to surfaces if left to dry. See section 5 for further details.

UN-Number DOT, ADR, IMDG, IATA	UN1173	
UN proper shipping name		
DOT	Ethyl acetate solution	
ADR	1173 ETHYL ACETATE solution	
IMDG, IATA	ETHYL ACETATE solution	
Transport hazard class(es)		
DOT		
3		
V		
Class	3 Flammable liquids	

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

	(Contd. of page
[.] Label	3
ADR	
· Class · Label	3 (F1) Flammable liquids 3
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	11
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids 33 F-E,S-D B
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	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
[.] IMDG [.] Limited quantities (LQ) [.] Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1173 ETHYL ACETATE SOLUTION, 3, II

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 10)

US

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

. ;	Section 313 (Specific toxic chemical listings):
	None of the ingredients is listed.
	TSCA (Toxic Substances Control Act):
	All components have the value ACTIVE.
	•
 	Additional information: If a substance is marked with **, then substance is a trade secret. This is allowed under OSH Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Busir Information (CBI).
ł	Hazardous Air Pollutants
ľ	None of the ingredients is listed.
ľ	Proposition 65
(Chemicals known to cause cancer:
ľ	None of the ingredients is listed.
(Chemicals known to cause reproductive toxicity for females:
	None of the ingredients is listed.
	Chemicals known to cause reproductive toxicity for males:
	None of the ingredients is listed.
	Chemicals known to cause developmental toxicity:
1	None of the ingredients is listed.
(Carcinogenic categories
ļ	EPA (Environmental Protection Agency)
ļ	None of the ingredients is listed.
EU/EEOEEOOIIHUNS	EPA carcinogenic categories' legend: EPA weight-of-evidence (WoE): official codes and categories from EPA's 1986 guidelines unofficial, derived codes from EPA's standard hazard descriptors from 1996, 1999, and 2005 guideli A: human carcinogen (1986) B1: probable human carcinogen – based on limited evidence of carcinogenicity in humans (1986) B2: probable human carcinogen – based on sufficient evidence of carcinogenicity in animals (1986) B2: probable human carcinogen (1986) D: not classifiable as to human carcinogenicity (1986) E: evidence of non-carcinogenicity for humans (1986) CaH: carcinogenic to humans CBD: carcinogenic potential cannot be determined I: data are inadequate for an assessment of human carcinogenic potential II: inadequate information to assess carcinogenic potential K/L: known/likely human carcinogen L: likely to be carcinogenic to humans S: suggestive evidence of carcinogenic to humans S: suggestive evidence of carcinogenic potential
	TLV (Threshold Limit Value)
	dibenzoyl peroxide
	ACGIH carcinogenic categories' 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

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 10)

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

None of the ingredients is listed.

· GHS label elements

Exempt from labeling – medical devices and drugs do not require labeling according to HCS 2012. The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



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

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.

P501 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 SDS: Regulatory Affairs · Contact: **Regulatory Affairs** Telephone No. +1 (708) 597-0900 SDS.gcamerica@gc.dental Date of preparation / last revision 03/10/2025 / -· 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 ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (USA) HNOC: Hazard Not Otherwise Classified (USA) 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) NIOSH: National Institute for Occupational Safety and Health (USA) TSCA: Toxic Substances Control Act (USA) AwSV: Verordnung über Anlagen zum Ümgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water) (Germany) NOEC: No Observed Effect Concentration ADR: Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) (Contd. on page 12) US

Printing date 03/10/2025

Version US-EN-Rev 1

Reviewed on 03/10/2025

Trade name: COE-SOFT™ PRINT (Bonding Agent)

(Contd. of page 11)
WEEL: Workplace Environmental Exposure Level
IMDG Code: International Maritime Dangerous Goods Code DOT: Department of Transportation (USA)
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Sources
Manufacturers' MSDSs/SDSs
OSHA (https://www.osha.gov/chemicaldatabase)
PubChem (https://pubchem.ncbi.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
or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in
this document is accurate or complete, and we accordingly exclude all liability in connection with the use

of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

-US-