### **SAFETY DATA SHEETS**

### This SDS packet was issued with item:

072060150

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

072061133



Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

### 1 Identification

· Product identifier

· Trade name: COE-RECT (Powder)

- · 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 identification

· Classification of the substance or mixture

Skin Irritation - Category 2 H315 Causes skin irritation. Eye Irritation - Category 2B H320 Causes eye irritation.

Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Reproductive Toxicity - Effects on or via Lactation H362 May cause harm to breast-fed children.

Aquatic Acute 3 H402 Harmful to aquatic life.

· 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



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

dibutyl phthalate dibenzoyl peroxide

· Hazard statements

Causes skin and eye irritation.

May cause an allergic skin reaction.

(Contd. on page 2)

Version CA-EN-Rev 1 Reviewed on 01/09/2018 Printing date 03/13/2018

Trade name: COE-RECT (Powder)

(Contd. of page 1)

May cause harm to breast-fed children.

Harmful to aquatic life.

### · Precautionary statements

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

Avoid contact during pregnancy and while nursing.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

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

- · Classification system:
- NFPA ratings (scale 0 4)



The substance possesses oxidizing properties.

· HMIS-ratings (scale 0 - 4)



Health = \*1 Fire = 1

### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
- · **Description**: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 84-74-2	dibutyl phthalate	7 - 13% w/w	
	poly(methyl methacrylate)	1 - 5% w/w	
CAS: 94-36-0	dibenzoyl peroxide	≤ 1% 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.

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.

(Contd. on page 3)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 2)

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:

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.

If symptoms persist consult doctor.

- · 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 Firefighting 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 monoxide and carbon dioxide

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.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Remove persons from danger area.

Avoid formation of dust.

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:

Pick up mechanically.

Prevent formation of dust.

Dispose of the collected material according to regulations.

· Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 4)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 3)

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.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Avoid contact with the eyes and skin.

Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture.

- · 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.

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 a	at the workplace.
COHIDOHEHIS WILH	HIIII Values	, illai leuulle		at the workblace.

### CAS: 84-74-2 dibutyl phthalate

EL Long-term value: 5 mg/m<sup>3</sup>

R

EV Long-term value: 5 mg/m<sup>3</sup>

### CAS: 94-36-0 dibenzoyl peroxide

EL Long-term value: 5 mg/m<sup>3</sup>

EV Long-term value: 5 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.

Do not inhale dust / smoke / mist.

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.

(Contd. on page 5)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

(Contd. of page 4)

Trade name: COE-RECT (Powder)

**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

# 9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance:	Powder	Odorless	Not determined.	Not applicable.	Undetermined. Undetermined.	Not applicable.	Not determined.	Undetermined.	Not determined.	Product is not self-igniting.	Product does not present an explosion hazard.	0.1 Vol %	2 Vol %	Not applicable.	
										.gr	nt an explosion hazard.				

(Contd. on page 6)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 5) · Relative density Not determined. · Vapor density Not applicable. · Evaporation rate Not applicable. · Solubility in / Miscibility with Water: Insoluble. · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. Solvent content: Water: 0.4 % Solids content: 100.0 % · 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

Keep away from heat.

High heat

- · Incompatible materials: Reacts with strong acids.
- · Hazardous decomposition products:

Carbon monoxide

Flammable gases/vapors

Poisonous gases/vapors

Carbon dioxide

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

### CAS: 84-74-2 dibutyl phthalate

Oral LD50 8,000 mg/kg (rat (f+m))
Dermal LD50 20,000 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 7)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 6)

### Irritant

### Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
poly(methyl methacrylate)	3
dibenzoyl peroxide	3
titanium dioxide	2B

### 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.

- · Repeated dose toxicity. No further relevant information available.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

Reproductive Toxicity - Effects on or via Lactation

### 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: Harmful to 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.

Harmful to 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:

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

(Contd. on page 8)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 7)

· Uncleaned packagings:

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

14 Transport information	
· UN-Number · DOT, TDG, ADN, IMDG, IATA	Void
<ul><li>· UN proper shipping name</li><li>· DOT, TDG, ADN, IMDG, IATA</li></ul>	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.
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.
· 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):

dibutyl phthalate

dibenzoyl peroxide

· TSCA (Toxic Substances Control Act):

poly(methyl methacrylate)

dibutyl phthalate

dibenzoyl peroxide

cellulose acetate

- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)

poly(methyl methacrylate)

dibutyl phthalate

dibenzoyl peroxide

(Contd. on page 9)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 8)

water

cellulose acetate

titanium dioxide

C.I. Pigment Red 178

triiron tetraoxide

### · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

### · Canadian Ingredient Disclosure list (limit 1%)

dibutyl phthalate

### · GHS label elements

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

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

dibutyl phthalate

dibenzoyl peroxide

### Hazard statements

Causes skin and eye irritation.

May cause an allergic skin reaction.

May cause harm to breast-fed children.

Harmful to aquatic life.

### · Precautionary statements

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

Avoid contact during pregnancy and while nursing.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

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.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)

(Contd. on page 10)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Powder)

(Contd. of page 9)

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)

C.I.: Colour Index

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.

· \* Data compared to the previous version altered. This version replaces all previous versions.

### · 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.

CA



Printing date 03/13/2018 Version CA-EN-Rev 1 Review

Reviewed on 01/09/2018

### 1 Identification

- · Product identifier
- · Trade name: COE-RECT (Liquid)
- · 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 identification

· Classification of the substance or mixture

Flammable Liquids - Category 2	H225	Highly flammable liquid and vapour.
Skin Irritation - Category 2	H315	Causes skin irritation.
Eye Irritation - Category 2B	H320	Causes eye irritation.
Skin Sensitizer - Category 1	H317	May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Acute 2	H401	Toxic to aquatic life.

### · 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





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling: methyl methacrylate (MMA)

dibutyl phthalate ethyl alcohol

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 1)

### · Hazard statements

Highly flammable liquid and vapour.

Causes skin and eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

Toxic to aquatic life.

### · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

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

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3

Reactivity = 2

· HMIS-ratings (scale 0 - 4)



Health = \*2

Fire = 3

Reactivity = 2

### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 80-62-6	methyl methacrylate (MMA)	40 - 70% w/w	
CAS: 84-74-2	dibutyl phthalate	15 - 40% w/w	
CAS: 64-17-5	ethyl alcohol	1 - 5% w/w	
	accelerant**	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.

If symptoms persist consult doctor.

(Contd. on page 3)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 2)

### · 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:

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.

If symptoms persist consult doctor.

- · 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 Firefighting 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

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

- · 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.

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.

(Contd. on page 4)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

See Section 13 for disposal information.

(Contd. of page 3)

### 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 from heat.

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 item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

### CAS: 84-74-2 dibutyl phthalate

EL Long-term value: 5 mg/m<sup>3</sup>

R

EV Long-term value: 5 mg/m<sup>3</sup>

### CAS: 64-17-5 ethyl alcohol

EL Short-term value: 1000 ppm

EV Long-term value: 1,900 mg/m<sup>3</sup>, 1,000 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.

(Contd. on page 5)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 4)

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:

Manufacturing sites:

Wear safety glasses with side shields (or goggles).

Distribution, Workplace, and Household Settings:

No special protective equipment required

### 9 Physical and chemical properties

· Information on basic physical and · General Information	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Colorless	
· Odor:	Methacrylic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	Undetermined. 78 ℃	
· Flash point:	11 ℃	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Undetermined.	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
		(Contd. on page 6)

(Contd. on page 6)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

	(Contd. of pag
· Danger of explosion:	Heating may cause an explosion. Product is not explosive. However, formation of explosive a vapor mixtures are possible.
· Explosion limits:	
Lower:	0.1 Vol %
Upper:	12.5 Vol %
· Vapor pressure:	Not determined.
· Density at 20 °C:	1 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Insoluble.
· Partition coefficient (n-octanol/v	water): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	3.9 %
· Other information	No further relevant information available.

### 10 Stability and reactivity

- · Reactivity Danger of polymerization.
- · Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

Spontaneous polymerization can be caused in unstabilized product e.g. by ambient heat.

Danger of receptacles bursting because of high vapor pressure if heated.

Exothermic polymerization.

· Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials:

Reacts with peroxides and other radical forming substances.

Reacts with amines.

Reacts with heavy metals.

· Hazardous decomposition products: No dangerous decomposition products known.

CA ·

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 6)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:			
CAS: 84-7	CAS: 84-74-2 dibutyl phthalate			
Oral	LD50	8,000 mg/kg (rat (f+m))		
Dermal	LD50	20,000 mg/kg (rabbit)		
acceleran	accelerant**			
Oral	LD50	1,650 mg/kg (rat (f+m))		
Dermal	LD50	> 2,000 mg/kg (rat (f+m))		
Inhalative	LC50/4 h	254 mg/l (rat (f+m))		

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
methyl methacrylate (MMA)	3
ethyl alcohol	1
hydroquinone (HQ)	3

### · 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.

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

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

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:

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

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

· UN-Number	
· DOT, TDG, IMDG, IATA	UN1993
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (Methyl methacrylate monome stabilized, Methanol)
·TDG	1993 Flammable liquids, n.o.s. (Methyl methacrylat monomer, stabilized, Methanol), special provision 640D
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METHY METHACRYLATE MONOMER, STABILIZED METHANOL)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 8) · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label · TDG (Transport dangerous goods): · Class 3 (F1) Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label 3 · Packing group · DOT, TDG, IMDG, IATA Ш · Environmental hazards: Product contains environmentally hazardous substances: · Marine pollutant: · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · EMS Number: F-E,S-E Stowage Category В · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · 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) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 9)

· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISION 640D (METHYL METHACRYLATE MONOMER, STABILIZED, METHANOL), 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 ingredients is listed.

· Section 313 (Specific toxic chemical listings):

methyl methacrylate (MMA)

dibutyl phthalate

· TSCA (Toxic Substances Control Act):

dibutyl phthalate

ethyl alcohol

accelerant\*\*

UV-light absorber\*\*

- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)

methyl methacrylate (MMA)

dibutyl phthalate

ethyl alcohol

accelerant\*\*

UV-light absorber\*\*

· Canadian Ingredient Disclosure list (limit 0.1%)

ethyl alcohol

· Canadian Ingredient Disclosure list (limit 1%)

methyl methacrylate (MMA)

dibutyl phthalate

· GHS label elements

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

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

methyl methacrylate (MMA) dibutyl phthalate

ethyl alcohol

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 10)

### Hazard statements

Highly flammable liquid and vapour.

Causes skin and eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation. May cause drowsiness or dizziness.

Toxic to aquatic life.

### · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

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.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

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.

\* Data compared to the previous version altered. This version replaces all previous versions.

### · 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

(Contd. on page 12)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Liquid)

(Contd. of page 11)

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.

 $C\Delta$ 



Printing date 03/13/2018 Version CA-EN-Rev 1

Reviewed on 01/09/2018

### 1 Identification

- · Product identifier
- · Trade name: COE-RECT (Repair Liquid)
- · 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

Flammable Liquids - Category 2 H225 Highly flammable liquid and vapour.

Skin Irritation - Category 2 H315 Causes skin irritation.

Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - H335 May cause respiratory irritation.

Category 3

### · 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





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

methyl methacrylate (MMA)

Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 1)

### · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 2

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3 Reactivity = 2

### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 80-62-6 methyl methacrylate (MMA)

60 - 100% 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.

Remove breathing apparatus only after contaminated clothing have been completely removed.

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.

Supply fresh air or oxygen; call for doctor.

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:

Protect unharmed eve.

Rinse opened eye for several minutes under running water.

(Contd. on page 3)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 2)

If symptoms persist consult 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 Allergic reactions
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Firefighting 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

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

- 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.

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.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

(Contd. on page 4)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 3)

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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 item 7.
- Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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.

Store protective clothing separately.

· 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

(Contd. on page 5)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 4)

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:

No special protective equipment required

9 Physical and chemical properties
<ul> <li>Information on basic physical and chem</li> </ul>

· Information on basic physical and c · General Information	· Information on basic physical and chemical properties				
· Appearance:					
Form:	Liquid				
Color:	Colorless				
· Odor:	Methacrylic				
· Odor threshold:	Not determined.				
· pH-value:	Not determined.				
· Change in condition					
Melting point/Melting range:	Undetermined.				
Boiling point/Boiling range:	101 ℃				
· Flash point:	10 ℃				
· Flammability (solid, gaseous):	Not applicable.				
· Ignition temperature:	Undetermined.				
· Decomposition temperature:	Not determined.				
· Auto igniting:	Product is not self-igniting.				
· Danger of explosion:	Heating may cause an explosion.				
	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.				
· Explosion limits:					
Lower:	2.1 Vol %				
Upper:	12.5 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:	Insoluble.				
· Partition coefficient (n-octanol/water): Not determined.					

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 5)

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Other information No further relevant information available.

### 10 Stability and reactivity

- Reactivity Danger of polymerization.
- · Chemical stability Stable at ambient temperature.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions

Spontaneous polymerization can be caused in unstabilized product e.g. by ambient heat.

Danger of receptacles bursting because of high vapor pressure if heated.

Exothermic polymerization.

· Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials:

Reacts with peroxides and other radical forming substances.

Reacts with amines.

Reacts with heavy metals.

· 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: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Experience with humans:

May cause damage to blood.

May cause damage to central nervous system.

May cause damage to skin.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

### · IARC (International Agency for Research on Cancer)

methyl methacrylate (MMA)

3

### 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.

(Contd. on page 7)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 6)

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 (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

No further relevant information available.

### 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: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 7	rans	port in	tormat	tion

ш	N-	Νı	ım	ber
u	W-	IVL		nei

· DOT, TDG, IMDG, IATA UN1247

· UN proper shipping name

· DOT

Methyl methacrylate monomer, stabilized 1247 Methyl methacrylate monomer, stabilized

· TDG · IMDG, IATA

METHYL METHACRYLATE MONOMER, STABILIZED

- · Transport hazard class(es)
- · DOT



· Class 3 Flammable liquids

(Contd. on page 8)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 7) · Label 3 · TDG, IMDG, IATA 3 Flammable liquids · Class · Label · Packing group DOT, TDG, IMDG, IATA Ш · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 · EMS Number: F-E,S-D · Stowage Category · Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: Code: E2 Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1247 METHYL METHACRYLATE MONOMER. UN "Model Regulation": STABILIZED, 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 ingredients is listed.

Section 313 (Specific toxic chemical listings):

methyl methacrylate (MMA)

· TSCA (Toxic Substances Control Act):

accelerant\*\*

(Contd. on page 9)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 8)

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

All ingredients are listed.

· GHS label elements

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

Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

methyl methacrylate (MMA)

Hazard statements

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Store locked up.

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.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

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

(Contd. on page 10)

Printing date 03/13/2018 Version CA-EN-Rev 1 Reviewed on 01/09/2018

Trade name: COE-RECT (Repair Liquid)

(Contd. of page 9)

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.

\* Data compared to the previous version altered. This version replaces all previous versions.

### · 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.

CA