SAFETY DATA SHEETS

This SDS packet was issued with item: 071456177

N/A



Safety Data Sheet

according to HPR, Schedule 1

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

- **1** Identification
- · Product identifier
- · Trade name: EQUIA FORTE COAT
- · Application of the substance / the mixture Dental sealing material
- · 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 Skin Irritation - Category 2 Skin Sensitizer - Category 1 Specific Target Organ Toxicity - Single Exposure -Category 3 Aquatic Acute 3 Aquatic Chronic 3

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

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: methyl methacrylate (MMA) synergist**

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	acid ester monomer**	
· Hazard stat		
	nable liquid and vapour.	
Causes skin		
	in allergic skin reaction.	
	espiratory irritation.	
Harmful to a		
	quatic life with long lasting effects.	
Keep away f Contaminate Wear protec IF ON SKIN Store locked Dispose of c • Additional i 50 % of the f	ontents/container in accordance with local/regional/national/international regulations. nformation: mixture consists of an ingredient or ingredients of unknown acute toxicity.	nower].
 Classification NFPA rating 	on system: js (scale 0 - 4)	
130	Health = 1 Fire = 3 Reactivity = 0	
HMIS-rating	is (scale 0 - 4)	
HEALTH1FIRE3REACTIVITY0	Fire = 3	

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)	15 - 40% w/w
	photoinitiator**	1 - 5% w/w
	synergist**	1 - 5% w/w
	phosphoric acid ester monomer**	≤ 1% w/w
CAS: 128-37-0	butylated hydroxytoluene (BHT)	≤ 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).

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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: 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 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: Nitrogen oxides (NOx) 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.

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.

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(Contd. of page 3) · 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. 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. 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: 80-62-6 methyl methacrylate (MMA)

EL Short-term value: 100 ppm Long-term value: 50 ppm S(D)

EV Short-term value: 100 ppm Long-term value: 50 ppm

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

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according to HPR, Schedule 1 Safety Data Sheet

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- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
 - Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
 - Breathing equipment:



Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

- Eye protection:
- 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 chemical properties
 - General Information
 - Appearance:
 - Form:
- · Odor threshold: · Odor:
- Pungent Clear

- Not determined.

Not determined.

Undetermined. Undetermined.

Melting point/Melting range: Boiling point/Boiling range:

· Change in condition

· pH-value:

8

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Not applicable.

· Flammability (solid, gaseous):

· Flash point:

10 0

- Liquid

- - - - - Color:

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· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	2.1 Vol % 12.5 Vol %
· Vapor pressure:	Not determined.
 Density at 20 ℃: Relative density Vapor density Evaporation rate 	1.06 g/cm ³ Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Insoluble.
· Partition coefficient (n-octanol/wa	ater): Not determined.
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.
· Solvent content:	
Solids content: · Other information	67.0 % 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** Reacts with reducing agents. Reacts with alkali (lyes). Reacts with acids. Reacts with oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Reacts with alkali (lyes).
- · Hazardous decomposition products: No dangerous decomposition products known.

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· Acute t		on toxicological effects /:	
	-	es that are relevant for classification:	
CAS: 12	28-37-0	0 butylated hydroxytoluene (BHT)	
Oral	LD50	10,700 mg/kg (guinea pig)	
		1,040 mg/kg (mouse)	
		2,930 mg/kg (rat (f+m))	
Dermal	LD50	890 mg/kg (rat (f+m))	
· on the · on the	s kin: li eye: N	nt effect: rritant to skin and mucous membranes. o irritating effect. : Sensitization possible through skin contact.	
prepara Irritant Carcine	tions: ogenic	shows the following dangers according to internally approved ca	lculation method
•		tional Agency for Research on Cancer)	
methyl	methac	crylate (MMA)	
methyl silicon o	methac dioxide	crylate (MMA)	
methyl i silicon o butylate	methac dioxide d hydro	oxytoluene (BHT)	
methyl i silicon o butylate	methad dioxide d hydro ationa	oxytoluene (BHT) I Toxicology Program)	
methyl i silicon o butylate • NTP (N None of	methac dioxide d hydro ationa f the ing	oxytoluene (BHT)	

12 Ecological information

· Toxicity

· Aquatic toxicity:

CAS: 128-37-0 butylated hydroxytoluene (BHT)

NOEC-value Ecol. other effects 0.07 mg/l (daphnia magna) 21 day, reproductive effects

• Persistence and degradability No further relevant information available.

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· 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.

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

14 Transport information	
· UN-Number · DOT, TDG, IMDG, IATA	UN1247
 · UN proper shipping name · DOT · TDG · IMDG, IATA 	Methyl methacrylate monomer, stabilized 1247 Methyl methacrylate monomer, stabilized METHYL METHACRYLATE MONOMER, STABILIZED
· Transport hazard class(es)	
· Class · Label · TDG, IMDG, IATA	3 Flammable liquids 3
· Class	3 Flammable liquids
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Label	3
Packing group DOT, TDG, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user EMS Number: Stowage Category Stowage Code	Warning: Flammable liquids F-E,S-D B SW2 Clear of living quarters.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
TDG Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER STABILIZED, 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.
- · Section 313 (Specific toxic chemical listings):
- methyl methacrylate (MMA)
- · TSCA (Toxic Substances Control Act):
- methyl methacrylate (MMA)
- dipentaerythritol hexaacrylate
- silicon dioxide
- photoinitiator**
- synergist**
- butylated hydroxytoluene (BHT)
- · Canadian substance listings:

 Canadian Domestic Substances List (DSL) 	
methyl methacrylate (MMA)	
silicon dioxide	
photoinitiator**	
synergist**	
photoinitiator**	
butylated hydroxytoluene (BHT)	
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silane**
Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients is listed.
· Canadian Ingredient Disclosure list (limit 1%)
methyl methacrylate (MMA)
silicon dioxide
· 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) synergist** phosphoric acid ester monomer** Hazard statements Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. 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

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our negligence or for fraudulent misrepresentation.

LIEU - Lleve en El velo de la lació	(Contd. of page 10)
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.	
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