

SAFETY DATA SHEETS

This SDS packet was issued with item:

070456756

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

070456707 070456715 070456723 070456731 070456749 070456764 070456772 070456780 070456798 070456806
070456814 070456822 070456830 070456848 070456855 070456863 070456871 070456889 070456897

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072040202 072040210 072040228 072040236 072040244 072040251 072040269 072040277 072040285 072040293



Welcome to GC America



EQUIA™
Self-Adhesive, Aesthetic Posterior Restorative

EQUIA - Intro Kit

Item Number Description

439402 Assorted Shades

Contains: EQUIA Fil (10 caps of each shade: A2, A3, A3.5, B1 and B3), EQUIA Coat bottle (4 mL) and GC CAVITY CONDITIONER bottle (5.7 mL).

439404 **Shade A1 (50)**

439412 **Shade A2 (50)**

439407 **Shade A3 (50)**

439410 **Shade A3.5 (50)**

439414 **Shade B1 (50)**

439413 **Shade B2 (50)**

439168 **Shade B3 (50)**

439169 **Shade C4 (50)**



SECTION 1 - SOURCE/IDENTITY/USE INFORMATION**MANUFACTURER**

GC AMERICA INC.

3737 West 127th St.

Alsip, Illinois 60803

Telephone: 708-597-0900

Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.

Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: EQUIA COAT**CHEMICAL NAME:** N.A.**PRODUCT USE:** Coating agent for glass ionomer restorations.*The following information is provided with regard to the toxicity and hazards of the pure components present in this product.***SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Urethane methacrylate	---	N.E.	N.E.	30-40
Methylmethacrylate	80-62-6	OSHA (PEL): 100ppm TWA) ACGIH (TLV) 50 ppm (TWA)	LD50 (oral rat) 7872 mg/kg LC50 (inh rat) 78000 mg/m 3/4 H	40-50
Camphorquinone	465-29-2	N.E.	N.E.	<1
Silicon dioxide	7631-86-9	N.E.	N.E.	10-15
Phosphoric ester monomer		N.E.	N.E.	1-5

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**BOILING POINT:** 100° C.**VAPOR PRESSURE:** 3.9 kPa @ 20° C**VAPOR DENSITY:** N.E.**SOLUBILITY IN WATER:** Miscible.**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.**SPECIFIC GRAVITY (H₂O = 1):** N.E.**MELTING POINT:** N.E.**EVAPORATION RATE:** N.E.**ODOR THRESHOLD:** Ester-like**APPEARANCE AND ODOR:** Slight yellow color and slight odor**SECTION 4 - FIRE AND EXPLOSION DATA****FLASH POINT:** 10° C**FLAMMABLE LIMITS:** N.E.**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemicals, chemical foam**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective equipment.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N.E.**HAZARDOUS COMBUSTION PRODUCTS:** N.E.**SECTION 5 - REACTIVITY DATA****STABILITY:** Stable ☒Unstable ☐**POLYMERIZATION:** Will Not Occur ☒Will Occur ☐**CONDITIONS TO AVOID:** Avoid heat and ignition sources.**INCOMPATIBILITY (Materials to Avoid):** N.E.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER	X							

MS004268

EQUIA COAT

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SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continuedROUTES OF ENTRY: Inhalation ☒ Skin ☒ Ingestion ☒

HEALTH HAZARD (Acute and Chronic): Eyes, skin and respiratory system irritation. May cause sensitization by skin contact. May cause irritation to digestive tract if swallowed.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. If breathing is difficult give oxygen and seek medical attention. If not breathing, give artificial respiration.

INGESTION: Do not induce vomiting. Give one or two glasses of water and seek medical attention.

SKIN: Wash with soap and water for 15 minutes, if irritation persist, get medical attention.

EYES: Flush with water for 15 minutes, if irritation persist get medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Cover with absorbent material, place in chemical waster container.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at room temperature. Remain out of direct sunlight and heat. Keep receptacle tightly sealed. Store in cool, dry conditions. Container closed when not in use.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: In case of brief exposure or low pollution, use respiratory filter device. In case of longer exposure, use self contained respiratory protective device.

VENTILATION: Local Exhaust: N.E. Mechanical: N.E. Special: N.E. Other: N.E.

PROTECTIVE GLOVES: Rubber gloves

EYE PROTECTION: Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N.E.

WORK/HYGIENIC PRACTICE: Observe good hygienic practices.

SECTION 9- PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

DATE: 7 July 2011

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

The information herein is given in good faith. No warranty expressed or implied is made.

FIRE – 4

TOXICITY – 1

NFPA
REACTIVITY – 0

SPECIAL –

MS004259

EQUA FIL - LIQUID
MATERIAL SAFETY DATA SHEET

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SECTION 1 - SOURCE/IDENTITY/USE INFORMATION**DISTRIBUTOR**

GC AMERICA INC.
3737 West 127th St.
Alsip, Illinois, 60803
Telephone: 708-597-0900
Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.
Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: EQUA FIL - LIQUID**CHEMICAL NAME:** N.A.**PRODUCT USE:** Glass ionomer for Restorative Treatment - liquid component

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Polyacrylic acid	Not listed	TWA=10ppm (ACGIH)	D50 = 2500mg/kg (oral rat) LC50=N.E.	30-40
Proprietary Ingredient		TLV=10mg/m ³ PEL=15mg/m ³	N.E.	5-15

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 101°C
VAPOR PRESSURE: N.E.
VAPOR DENSITY: N.E.
SOLUBILITY IN WATER: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.
APPEARANCE AND ODOR: Colorless, slightly viscous and odorless liquid

SPECIFIC GRAVITY (H₂O = 1): 1.18
MELTING POINT: 13°C
EVAPORATION RATE: N.E.
ODOR THRESHOLD: N.E.

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT:** Not flammable**FLAMMABLE LIMITS:** N.A.**EXTINGUISHING MEDIA:** Alcohol foam**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective clothing and self-contained breathing apparatus.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None**HAZARDOUS COMBUSTION PRODUCTS:** Emits acrid smoke when heated beyond boiling point.**SECTION 5 - REACTIVITY DATA**

STABILITY: Stable ☒ Unstable ☐
POLYMERIZATION: Will Not Occur ☒ Will Occur ☐

CONDITIONS TO AVOID: High heat**INCOMPATIBILITY (Materials to Avoid):** Alkali will inactivate product**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation ☐ Skin ☒ Ingestion ☒

HEALTH HAZARD (Acute and Chronic): Acidic solution (pH=1.90), care should be taken to avoid contact with skin or eyes.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Do not induce vomiting - give large volumes of water. Seek medical attention.

SKIN: Wash with soap and water. If irritation develops seek medical attention.

EYES: Flush with water for 15 minutes. If irritation develops seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

WASTE DISPOSAL METHOD: Dilute with water and flush into drain with large volumes of water.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool dry place in tightly closed container.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: None required

VENTILATION: Local Exhaust: N.A. Mechanical: N.A. Special: N.E. Other: N.A.

PROTECTIVE GLOVES: Latex gloves are recommended

EYE PROTECTION: Goggles or full face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Do not spill on clothing. Eyewash station.

WORK/HYGIENIC PRACTICE: N.E.

SECTION 9 - PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200 and W.H.M.I.S. CPR

DATE: 07 July 2011

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

FIRE – 0

TOXICITY – 1

NFPA

REACTIVITY – 0

SPECIAL – ACID

MS430106

CAVITY CONDITIONER
MATERIAL SAFETY DATA SHEET

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SECTION 1 - SOURCE/IDENTITY/USE INFORMATION**DISTRIBUTOR**

GC AMERICA INC.
3737 West 127th St.
Alsip, Illinois, 60803
Telephone: 708-597-0900
Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.
Transportation Emergency Telephone No. 800-424-9300

COMMON NAME: CAVITY CONDITIONER**CHEMICAL NAME:** N.A.**PRODUCT USE:** Cavity Conditioning Agent

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Polyacrylic acid	9003-01-4	TWA=10 ppm (ACGIH)	LD50=2500mg/kg (oral rat) LC50=N.E.	20
Distilled water	7732-18-5	N.E.	N.E.	77
Aluminum chloride hydrate	7784-13-6	TWA=2mg Al/m ³ (soluble salts) (ACGIH)	LD50=770mg/kg (oral, mouse) LC50=N.E.	3
Food additive Blue No. 1	3844-45-9	N.E.	N.E.	<0.1

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 101°C	SPECIFIC GRAVITY (H₂O=1): 1.18
VAPOR PRESSURE: N.E.	MELTING POINT: 13°C
VAPOR DENSITY: N.E.	EVAPORATION RATE: N.E.
SOLUBILITY IN WATER: N.E.	ODOR THRESHOLD: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR: Blue, slightly viscous and odorless liquid

SECTION 4 - FIRE AND EXPLOSION DATA**FLASH POINT:** Not flammable**FLAMMABLE LIMITS:** N.E.**EXTINGUISHING MEDIA:** Alcohol foam**SPECIAL FIRE FIGHTING PROCEDURES:** Full protective clothing and self-contained breathing apparatus**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None**HAZARDOUS COMBUSTION PRODUCTS:** Emits acrid smoke when heated beyond boiling point**SECTION 5 - REACTIVITY DATA**

STABILITY:	Stable <input checked="" type="checkbox"/>	Unstable <input type="checkbox"/>
POLYMERIZATION:	Will Not Occur <input checked="" type="checkbox"/>	Will Occur <input type="checkbox"/>

CONDITIONS TO AVOID: High heat**INCOMPATIBILITY (Materials to Avoid):** Alkaline, will inactivate product.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation ☐ Skin ☒ Ingestion ☒

HEALTH HAZARD (Acute and Chronic): Acidic solution (pH =1.90), care should be taken to avoid contact with skin or eyes. Aluminum chloride Hexahydrate maybe toxic on ingestion.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: Do not induce vomiting. Give large volumes of water. Seek medical attention.

SKIN: Wash with soap and water. If irritation develops, seek medical attention.

EYES: Flush with water for 15 minutes. If irritation develops, seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Soak up spill with absorbent material. Flush area with water.

WASTE DISPOSAL METHOD: In accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool dry place in tightly closed container.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: None required

VENTILATION: Local Exhaust: N.A. Mechanical: N.E. Special: N.E. Other: N.E.

PROTECTIVE GLOVES: Latex gloves are recommended

EYE PROTECTION: Goggles or full-face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Do not spill on clothing. Eyewash station

WORK/HYGIENIC PRACTICE: N.E.

SECTION 9- PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

DATE: 16 May 2006

REVIEWED: 03 April 2012

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

FIRE – 0

TOXICITY – 1

NFPA
REACTIVITY – 1

SPECIAL– ACID, CORR

Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 10/22/2015

Version US-EN-Rev 1

Reviewed on 10/22/2015

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(s) identification

- **Classification of the substance or mixture**

Flam. Liq. 2	H225 Highly flammable liquid and vapor.
Skin Irrit. 2	H315 Causes skin irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	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**

GHS02 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
methyl methacrylate (MMA)
synergist**
phosphoric acid ester monomer**

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Trade name: EQUIA FORTE COAT

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- **Hazard statements**

Highly flammable liquid and vapor.
 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/sparks/open flames/hot surfaces. No smoking.
 Wear protective gloves / eye protection / face protection.
 Contaminated work clothing must not be allowed out of the workplace.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

50 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1
 Fire = 3
 Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *1
 Fire = 3
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

80-62-6	methyl methacrylate (MMA)	25-50%
	photoinitiator**	1-5%
	synergist**	1-5%
	phosphoric acid ester monomer**	1-5%
128-37-0	butylated hydroxytoluene (BHT)	< 1%

- **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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(Contd. on page 3)

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Trade name: EQUIA FORTE COAT

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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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
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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Reviewed on 10/22/2015

Trade name: EQUIA FORTE COAT

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- **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 from heat.
Protect against electrostatic charges.
Do not spray on a naked flame or any incandescent material.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Observe instructions for use / storage.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store in a cool place.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

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

80-62-6 methyl methacrylate (MMA)

PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Long-term value: 410 mg/m ³ , 100 ppm
TLV	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm
DSEN	

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

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Trade name: EQUIA FORTE COAT

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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:** Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Clear
Odor:	Pungent
Odor threshold:	Not determined.

pH-value:	Not determined.
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· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point:	10 °C (50 °F)
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Flammability (solid, gaseous):	Not applicable.
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Ignition temperature:	Undetermined.
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Decomposition temperature:	Not determined.
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Auto igniting:	Product is not self-igniting.
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Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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· Explosion limits:

Lower:	2.1 Vol %
Upper:	12.5 Vol %

Vapor pressure:	Not determined.
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Density at 20 °C (68 °F):	1.06 g/cm ³ (8.846 lbs/gal)
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acc. to OSHA HCS 29 CFR 1910.1200

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Reviewed on 10/22/2015

Trade name: EQUIA FORTE COAT

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- | | |
|---------------------------|-----------------|
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |

- | | |
|--|------------|
| · Solubility in / Miscibility with Water: | Insoluble. |
|--|------------|

- | | |
|---|-----------------|
| · Partition coefficient (n-octanol/water): | Not determined. |
|---|-----------------|

- | | |
|---------------------|-----------------|
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

- | | |
|---------------------------|-------|
| · Solvent content: | |
| Organic solvents: | 0.0 % |

- | | |
|----------------------------|--|
| · Solids content: | 67.0 % |
| · 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**
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.

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- | | |
|---|--|
| · LD/LC50 values that are relevant for classification: | |
|---|--|

128-37-0 butylated hydroxytoluene (BHT)

Oral	LD50	10700 mg/kg (guinea pig) 1040 mg/kg (mouse) 2930 mg/kg (rat (f+m))
Dermal	LD50	890 mg/kg (rat (f+m))

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No 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:

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Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

methyl methacrylate (MMA)	3
silicon dioxide	3
butylated hydroxytoluene (BHT)	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Carcinogenic categories' legend:**

IARC Group 1: The agent is carcinogenic to humans.

IARC Group 2A: The agent is probably carcinogenic to humans.

IARC Group 2B: The agent is possibly carcinogenic to humans.

IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

IARC Group 4: The agent is probably not carcinogenic to humans.

NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen.

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

No further relevant information available.

No further relevant information available.

12 Ecological information

· **Toxicity**· **Aquatic toxicity:**

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.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Ecotoxicological 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.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	UN1247
· DOT, ADR, IMDG, IATA	
· UN proper shipping name	Methyl methacrylate monomer, stabilized
· DOT	1247 Methyl methacrylate monomer, stabilized
· ADR	METHYL METHACRYLATE MONOMER, STABILIZED
· IMDG, IATA	
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	II
· DOT, ADR, IMDG, IATA	
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· EMS Number:	F-E,S-D
· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1247 METHYL METHACRYLATE MONOMER, 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):**

methyl methacrylate (MMA)

dipentaerythritol hexaacrylate

silicon dioxide

photoinitiator**

synergist**

butylated hydroxytoluene (BHT)

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

methyl methacrylate (MMA)

E, NL

· **TLV (Threshold Limit Value established by ACGIH)**

methyl methacrylate (MMA)

A4

butylated hydroxytoluene (BHT)

A4

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

None of the ingredients is listed.

· **GHS label elements**

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

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

methyl methacrylate (MMA)

synergist**

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phosphoric acid ester monomer**

Hazard statements

Highly flammable liquid and vapor.
 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/sparks/open flames/hot surfaces. No smoking.
 Wear protective gloves / eye protection / face protection.
 Contaminated work clothing must not be allowed out of the workplace.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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 10/22/2015 / -

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)
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 Aquatic Acute 3: Hazardous to the aquatic environment - Acute Hazard, Category 3
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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)

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Notes:

CAS Registry Number is a Registered Trademark of the American Chemical Society.
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- *** Data compared to the previous version altered.** This version replaces all previous versions.

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