

Safety data sheet according to WHS Regulations

Printing date 07.12.2015


Version number 2

Revision: 07.12.2015

1 Identification

- **Product identifier**
- **Trade name:** GC EQUIA Forte Coat
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Auxillary for dental technology
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Henry Schein Halas
44 O'Dea Ave
Waterloo NSW 2017
Tel: 1300 65 88 22
- **Further information obtainable from:** Regulatory affairs
- **Emergency telephone number:** 24 hours Emergency: 13 11 26.

2 Hazard Identification

- **Classification of the substance or mixture**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT SE 3 H335 May cause respiratory irritation.
- **Label elements**
- **GHS label elements**
Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

GHS02 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Methyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
methacryloyloxydecyl dihydrogen phosphate
- **Hazard statements**
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.

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· **Precautionary statements**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Wear protective gloves / eye protection / face protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF exposed or concerned: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER/doctor if you feel unwell.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- In case of fire: Use for extinction: CO₂, powder or water spray.
- Specific treatment (see on this label).
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- 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.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and information on ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· **Dangerous components:**

| | | |
|------------|---|--------|
| 80-62-6 | Methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | 25-50% |
| 7631-86-9 | silicon dioxide | 5-10% |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361 | 1-5% |
| 85590-00-7 | methacryloyloxydecyl dihydrogen phosphate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | 0,5-1% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

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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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Take affected persons into fresh air and keep quiet.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
If skin irritation continues, consult a doctor.
- **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**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Remove persons from danger area.
Keep away from ignition sources.
Avoid contact with the eyes and skin.
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.

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- Absorb liquid components with liquid-binding material.*
- Dispose of the material collected 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**
- Ensure good ventilation/exhaustion at the workplace.*
- Prevent formation of aerosols.*
- Avoid contact with the eyes and skin.*
- **Information about fire - and explosion protection:**
- Keep ignition sources away - Do not smoke.*
- Protect against electrostatic charges.*
- Do not spray onto 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:**
- Keep container 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 and personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

80-62-6 Methyl methacrylate

| | |
|-----|---|
| NES | Short-term value: 416 mg/m ³ , 100 ppm |
| | Long-term value: 208 mg/m ³ , 50 ppm |

7631-86-9 silicon dioxide

| | |
|-----|--------------------------------------|
| TWA | Long-term value: 2 mg/m ³ |
|-----|--------------------------------------|

- **DNELs**

80-62-6 Methyl methacrylate

| | | |
|------------|-----------------|---|
| Dermal | DNEL dermal | 13.67 mg/kg bw/day (man) (worker, l. te., syst.) |
| Inhalative | DNEL inhalation | 208 mg/m ³ (air) (worker, l. te., syst.) |

128-37-0 2,6-di-tert-butyl-p-cresol

| | | |
|--------|-------------|------------------------|
| Dermal | DNEL dermal | 0.5 mg/kg bw/day (man) |
|--------|-------------|------------------------|

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| | | |
|------------|-----------------|-----------------------------|
| Inhalative | DNEL inhalation | 3.5 mg/m ³ (man) |
|------------|-----------------|-----------------------------|

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

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

· **Respiratory protection:** 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:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Clear

· **Odour:** Pungent

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** 10 °C (50 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Undetermined.

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| | |
|---|---|
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Lower: | 2.1 Vol % |
| Upper: | 12.5 Vol % |
| · Vapour pressure: | Not determined. |
| · Density at 20 °C (68 °F): | 1.06 g/cm ³ (8.846 lbs/gal) |
| · 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 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

| | | |
|--|----------|-------------------------------------|
| · LD/LC50 values relevant for classification: | | |
| 80-62-6 Methyl methacrylate | | |
| Oral | LD50 | 6000 mg/kg (rabbit) |
| Dermal | LD50 | >5000 mg/kg (rab) |
| Inhalative | LC50/4 h | 29.8 mg/l (rat (f+m)) |
| 128-37-0 2,6-di-tert-butyl-p-cresol | | |
| Oral | LD50 | > 6000 mg/kg (rat (f+m)) (OECD 401) |

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- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
Repr. 2

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

128-37-0 2,6-di-tert-butyl-p-cresol

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

- **Persistence and degradability** No further relevant information available.
- **Behaviour 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:**
Harmful to aquatic organisms
Water hazard class 3 (German Regulation) (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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

| | |
|-----------|---|
| 18 00 00 | WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care) |
| 18 01 00 | wastes from natal care, diagnosis, treatment or prevention of disease in humans |
| 18 01 06* | chemicals consisting of or containing hazardous substances |

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

14 Transport information

| | |
|---|---|
| · UN-Number · ADG, IMDG, IATA | UN1247 |
| · UN proper shipping name · ADG · IMDG, IATA | 1247 METHYL METHACRYLATE MONOMER, STABILIZED mixture METHYL METHACRYLATE MONOMER, STABILIZED mixture |
| · Transport hazard class(es) · ADG | |
|  | |
| · Class · Label | 3 (F1) Flammable liquids. 3 |
| · IMDG, IATA | |
|  | |
| · Class · Label | 3 Flammable liquids. 3 |
| · Packing group · ADG, IMDG, IATA | II |
| · Environmental hazards: · Marine pollutant: | No |
| · Special precautions for user · Danger code (Kemler): · EMS Number: | Warning: Flammable liquids. 339 F-E,S-D |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADG · Limited quantities (LQ) · Excepted quantities (EQ) | 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category · Tunnel restriction code | 2 D/E |

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| | |
|-----------------------------------|---|
| · 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 "Model Regulation": | UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II |

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**

| | |
|------------|--|
| 80-62-6 | Methyl methacrylate |
| 29570-58-9 | 2-[[3-[(1-oxoallyl)oxy]-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate |
| 7631-86-9 | silicon dioxide |
| 75980-60-8 | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide |
| 10287-53-3 | ethyl 4-dimethylaminobenzoate |
| 465-29-2 | Bornane-2,3-dione |
| 128-37-0 | 2,6-di-tert-butyl-p-cresol |
| 2530-85-0 | 3-trimethoxysilylpropyl methacrylate |

· **Standard for the Uniform Scheduling of Medicines and Poisons**

| | | |
|---------|---------------------|---------------|
| 80-62-6 | Methyl methacrylate | S6+APPENDIX C |
|---------|---------------------|---------------|

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

Methyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
methacryloyloxydecyl dihydrogen phosphate

· **Hazard statements**

Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.

· **Precautionary statements**

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

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- Avoid breathing dust/fume/gas/mist/vapours/spray.*
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
In case of fire: Use for extinction: CO₂, powder or water spray.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **Seveso category P5c FLAMMABLE LIQUIDS**
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
 - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
- **Department issuing MSDS:** Regulatory affairs
- **Contact:** msds@gceurope.com
- **Abbreviations and acronyms:**
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
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
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

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*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**Skin Sens. 1: Sensitisation - Skin, Hazard Category 1**Repr. 2: Reproductive toxicity, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3***Sources**

- ECHA (<http://echa.europa.eu/>)
- EnviChem (www.echemportal.org)

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

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