

**Safety data sheet**  
**according to UK REACH**

Printing date 10.07.2025

Version number 3 (replaces version 2)

Revision: 10.07.2025

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** **GRADIA PLUS LUSTRE PAINT (stain)****1.2 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**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

GC EUROPE N.V.

Interleuvenlaan 33

B-3001 Leuven

Tel. +32/(0)16/74.10.00

Fax +32/(0)16/40.26.84

msds@gc.dental

**Further information obtainable from:** Regulatory affairs**1.4 Emergency telephone number:**

National poison center for United Kingdom of Great Britain and Northern Ireland:

Belfast: +44 28 90 63 2032

Birmingham: +44 121 507 4123

Edinburgh: +44 131 242 1383

Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180

Penarth: +44 292 071 55 54

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 2 H361f Suspected of damaging fertility.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Exemptions**

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

**Hazard pictograms**

GHS07 GHS08

**Signal word** Warning**Hazard-determining components of labelling:**

Methyl methacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

(Contd. on page 2)

## Safety data sheet according to UK REACH

Printing date 10.07.2025

Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 1)

- **Hazard statements**

- H317 May cause an allergic skin reaction.

- H361f Suspected of damaging fertility.

- **Precautionary statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

- P308+P313 IF exposed or concerned: Get medical advice/attention.

- P321 Specific treatment (see on this label).

- P362+P364 Take off contaminated clothing and wash it before reuse.

- P405 Store locked up.

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 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:**

|                                                                    |                                                                                                                                                            |         |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 80-62-6<br>EINECS: 201-297-1<br>Index number: 607-035-00-6    | Methyl methacrylate<br>Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335<br>substance with a Community workplace exposure limit | 5-<10%  |
| CAS: 75980-60-8<br>EINECS: 278-355-8<br>Index number: 015-203-00-X | diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>Repr. 2, H361f; Skin Sens. 1B, H317                                                                     | ≥3-<5%  |
| CAS: 13463-67-7<br>EINECS: 236-675-5<br>Index number: 022-006-00-2 | titanium dioxide<br>Carc. 2, H351<br>substance with a Community workplace exposure limit                                                                   | 1-<2.5% |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 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 a doctor.

(Contd. on page 3)

## Safety data sheet according to UK REACH

Printing date 10.07.2025

Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 2)

- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
No further relevant information available.
- **5.3 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.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Wear protective equipment. Keep unprotected persons away.  
Avoid contact with the eyes and skin.  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Allow to evaporate.  
Absorb liquid components with liquid-binding material.  
Dispose of the material collected according to regulations.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 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:** Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.

(Contd. on page 4)

## Safety data sheet according to UK REACH

Printing date 10.07.2025

Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 3)

- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

##### **80-62-6 Methyl methacrylate**

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 208 mg/m<sup>3</sup>, 50 ppm

##### **13463-67-7 titanium dioxide**

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable \*\*respirable

#### · **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 <sup>3</sup> (air) (worker, l. te., syst.) |

##### **13463-67-7 titanium dioxide**

|            |                 |                            |
|------------|-----------------|----------------------------|
| Inhalative | DNEL inhalation | 10 mg/m <sup>3</sup> (man) |
|------------|-----------------|----------------------------|

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

#### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as 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.

Avoid contact with the skin.

Immediately remove all soiled and contaminated clothing

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Suitable respiratory protective device recommended.

- **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



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.

(Contd. on page 5)

## Safety data sheet according to UK REACH

Printing date 10.07.2025

Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 4)

## · Eye/face protection



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

## · 9.1 Information on basic physical and chemical properties

## · General Information

## · Physical state

Fluid

## · Colour:

Different according to colouring

## · Odour:

Odourless

## · Odour threshold:

Not determined.

## · Melting point/freezing point:

Undetermined.

## · Boiling point or initial boiling point and boiling range

Undetermined.

## · Flammability

Not applicable.

## · Lower and upper explosion limit

## · Lower:

Not determined.

## · Upper:

Not determined.

## · Flash point:

Not applicable.

## · Auto-ignition temperature:

Undetermined.

## · Decomposition temperature:

Not determined.

## · pH

Not determined.

## · Viscosity:

## · Kinematic viscosity

Not determined.

## · Dynamic:

Not determined.

## · Solubility

## · water:

Insoluble.

## · Partition coefficient n-octanol/water (log value)

Not determined.

## · Vapour pressure:

Not determined.

## · Density and/or relative density

## · Density at 20 °C:

1 g/cm<sup>3</sup>

## · Relative density

Not determined.

## · Vapour density

Not determined.

## · Particle characteristics

SiO<sub>2</sub>: Diameter particle structure = 2.5 - 50 nm (TEM, d50, number-based)

Diameter agglomerate = 5 - 50 mm (laser diffraction dry module, d50, volume based)

## · 9.2 Other information

## · Appearance:

## · Form:

Pasty

## · Important information on protection of health and environment, and on safety.

## · Ignition temperature:

Product is not selfigniting.

## · Explosive properties:

Product does not present an explosion hazard.

## · Solvent content:

## · VOC (EC)

0.0 g/l

## · Change in condition

## · Evaporation rate

Not determined.

(Contd. on page 6)

## Safety data sheet according to UK REACH

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Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 5)

**Information with regard to physical hazard classes**

|                                                                             |      |
|-----------------------------------------------------------------------------|------|
| · Explosives                                                                | Void |
| · Flammable gases                                                           | Void |
| · Aerosols                                                                  | Void |
| · Oxidising gases                                                           | Void |
| · Gases under pressure                                                      | Void |
| · Flammable liquids                                                         | Void |
| · Flammable solids                                                          | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids                                                        | Void |
| · Pyrophoric solids                                                         | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids                                                         | Void |
| · Oxidising solids                                                          | Void |
| · Organic peroxides                                                         | Void |
| · Corrosive to metals                                                       | Void |
| · Desensitised explosives                                                   | Void |

### SECTION 10: Stability and reactivity

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

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**
**80-62-6 Methyl methacrylate**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 6,000 mg/kg (rabbit)  |
| Dermal     | LD50     | >5,000 mg/kg (rab)    |
| Inhalative | LC50/4 h | 29.8 mg/l (rat (f+m)) |

**13463-67-7 titanium dioxide**

|            |          |                                 |
|------------|----------|---------------------------------|
| Oral       | LD50     | >5,000 mg/kg (mouse) (OECD 420) |
| Inhalative | LC50/4 h | >6.82 mg/l (rat male)           |

- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Reproductive toxicity** Suspected of damaging fertility.
- **Additional toxicological information:**
- **Repeated dose toxicity** No further relevant information available.

(Contd. on page 7)

## Safety data sheet according to UK REACH

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Version number 3 (replaces version 2)

Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 6)

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (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.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

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

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA** not regulated

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** not regulated

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**· **Class** not regulated

· **14.4 Packing group**

· **ADR, IMDG, IATA** not regulated

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

(Contd. on page 8)



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Revision: 10.07.2025

Trade name: **GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 7)

- |                                                                       |                 |
|-----------------------------------------------------------------------|-----------------|
| <b>· 14.6 Special precautions for user</b>                            | Not applicable. |
| <b>· 14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>                                       | not regulated   |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients is listed.

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

None of the ingredients is listed.

- **Reportable poisons**

None of the ingredients is listed.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

- **Classification according to Regulation (EC) No 1272/2008** Calculation method

- **Department issuing SDS:** Regulatory affairs

- **Contact:** msds@gc.dental

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

(Contd. on page 9)



## Safety data sheet according to UK REACH

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**Trade name: GRADIA\_PLUS\_LUSTRE\_PAINT\_(stain)**

(Contd. of page 8)

DNEL: Derived No-Effect Level (UK 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 – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Sources**

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

**\* Data compared to the previous version altered.**

This version replaces all previous versions.

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