In conformity to Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : 3-CP
Trades code : BOND03

UFI: 4330-5098-R00Q-GX3W

1.2. Relevant identified uses of the substance or mixture and uses advised against

Argument ExceptionMethod: Translate()Parameter: appIdMessage: Invalid appId
Parameter name: appIdmessage id=5641.V2_Rest.Translate.B62838B
Sectors of use:
Only for professional dental technician

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Nobil Metal Spa
Strada San Rocco, 28 - 14018 Villafranca d'Asti - Italy
tel. +39 0141 933811

Email:contact@nobilmetal.it - Sito internet: www.nobilmetal.it

1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800883300
Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 0557947819
Centro antiveleni, Azienda ospedaliera universitaria riuniti, viale Luigi Pinto 1, Foggia - Tel. 0881732326
Centro antiveleni, Azienda ospedaliera Niguarda Ca' Grande, piazza Ospedale Maggiore 3, Milano - Tel. 0266101029
Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 0817472870
Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 038224444
Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 0668593726
Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 063054343
Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 0649978000
Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
None

Hazard Class and Category Code(s):

Nonhazardous

Hazard statement Code(s):
Nonhazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Nonhazardous

Supplemental Hazard statement Code(s):
EUH210 - Safety data sheet available on request.
EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Precautionary statements:
None in particular.

UFI: 4330-5098-R00Q-GX3W

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

No information on other hazards

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Note V - If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W - It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Note 10 - The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
glass ceramic	>= 50 < 75%	NC	ND	6599-17-3	266-046-0	ND
Titanium dioxide Note: V W 10	>= 30 < 50%	Skin Irrit. 2, H315	022-006-002	13463-67-7	236-675-5	ND

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:
Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:
Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).:
Wash immediately and thorougly with running water for at least 10 minutes.

Ingestion:
Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective suit.
The spray water can be used to protect the people involved in the extinction
You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)
Keep containers cool with water spray

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear gloves and protective clothing

6.1.2 For emergency responders:
Wear gloves and protective clothing. Provide adequate ventilation.

6.2. Environmental precautions

Contain spill
Inform the competent authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Remove contaminated clothing. Wash hands before breaks and at the end of work. Do not eat, drink or smoke in the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and `direct exposure of sunlight.

7.3. Specific end use(s)

Only for professional dental technician :
Handle with care. Avoid formation of dust

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Titanium dioxide

10 mg/m3 TWA ACGIH TLV

15 mg/m3 TWA OSHA PEL (Total Dust)
0.3 mg/m3 (respirable fraction) TWA, 2.4 mg/m3 (respirable fraction) STEL (15 min mean value) DFG MAK
10 mg/m3 (inhalable fraction), 4 mg/m3 (respirable fraction) TWA UK WEL

10 mg/m3 TWA Belgium OEL

8.2. Exposure controls

Appropriate engineering controls:
Only for professional dental technician :
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
Not needed for normal use.

(b) Skin protection

(i) Hand protection
When working with chemicals, only protective gloves with a CE mark and a four-digit control number must be worn. Protective gloves must be selected for each workplace depending on the concentration and type of harmful substances present. It is advisable to consult the manufacturer regarding the chemical resistance of the above-mentioned gloves when used for specific applications.

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices to avoid pollution into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	powder	
Colour	pink	
Odour	odorless	
Odour threshold	not determined	
Melting point/freezing point	not determined	
Boiling point or initial boiling point and boiling range	irrelevant	
Flammability	irrelevant	
Lower and upper explosion limit	irrelevant	
Flash point	irrelevant	
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	

Physical and chemical properties	Value	Determination method
pH	undefined	
Kinematic viscosity	irrelevant	
Solubility(ies)	irrelevant	
Water solubility	irrelevant	
Partition coefficient n-octanol/water (log value)	irrelevant	
Vapour pressure	irrelevant	
Density and/or relative density	irrelevant	
Relative vapour density	irrelevant	
Particle characteristics	10-50 µm Average grain size d90	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents.
It can ignite in contact with oxidants mineral acids, elementary metals, nitrides, organic peroxides, organic water peroxides, oxidating and reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skincorrosion/irritation: based on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(d) respiratoryorskinsensitisation: based on available data, the classification criteria are not met.
(e) germ cell mutagenicity: based on available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) eproductivetoxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞
(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritation: based on available data, the classification criteria are not met.
(c) serious eye damage/irritation: based on available data, the classification criteria are not met.
(d) respiratory or skin sensitisation: based on available data, the classification criteria are not met.
(e) germ cell mutagenicity: based on available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met.
(g) reproductive toxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) Specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
(j) Aspiration hazard: based on available data, the classification criteria are not met.

Health hazards:
Eye contact: Accidental contact of the product with the eyes may cause irritation.

Skin contact: The product is not an irritant.
Repeated and prolonged direct contact may degrease and irritate the skin, causing dermatitis in some cases.
Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system, resulting in abnormal digestive symptoms and intestinal disorders.
Inhalation: Inhalation of dust from the product may cause mild irritation to the eyes, nose and upper respiratory tract. Symptoms include coughing, sneezing and difficulty breathing.

Related to the substances contained:
Titanium dioxide:
LD50 oral rat > 10,000 mg/kg
Titanium dioxide is not classified as irritating to eyes and skin.
However, contact with eyes could, under certain conditions, cause slight irritation of short duration, attributable to mechanical effects (dust).
Titanium dioxide is classified by IARC as a group 2B carcinogen (possible carcinogen for humans).
However, the titanium dioxide in this product is inextricably bound within a polymer matrix and does not present any risk of exposure.

Related to contained substances:
Titanium dioxide:
Routes of Entry: Inhalation. Ingestion.
Toxicity to Animals:
LD50: Not available.

LC50: Not available.
Chronic Effects on Humans:
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.
MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells.
May cause damage to the following organs: lungs, upper respiratory tract.
Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans:
Possible carcinogen (tumorgen) based on animal data. No human data found at this time and IARC so far has found inadequate evidence for carcinogenicity in humans.
Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects:
Skin: Skin exposure to titanium dioxide is virtually harmless. It is reported to be a mild irritant and may cause mechanical irritation (irritation from frictional action). It is believed not to be absorbed through intact skin.
Eyes: Dust may cause mechanical irritation (irritation from frictional action),
Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting and diarrhea. It is not absorbed following ingestion. No hazard is expected in normal industrial use.
Inhalation: Nuisance dust. May be harmful if inhaled. Causes respiratory tract irritation. May affect respiration and blood.
Chronic Potential Health Effects: Heavy occupational dust exposures may cause chronic rhinitis, chronic bronchitis, impaired pulmonary function, resemblance of silicosis without any fibrosis, functional change in trachea or bronchi, chronic pulmonary edema.

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:
Titanium dioxide:
Ecotoxicity: Not available.
BOD5 and COD: Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances in the Candidate List (REACH Article 59)
Based on available data, no SVHC substances are present

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Description of the hazard statements exposed to point 3
H315 = Causes skin irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY:
1. Directive 1999/45/EC and subsequent updates
2. Directive 67/548/EEC and subsequent amendments and adjustments
3. Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
5. Council Regulation (EC) no 758/2013 of the European Parliament
6. Regulation (EC) no 453/2010 of the European Parliament
7. Regulation (EC) No 528/2012 European Parliament and subsequent updates
8. Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
9. The Merck Index And 10.
10. Handling Chemical Safety
11. Niosh Registry of Toxic Effects of Chemical Substances
12. INRS-Centre Piece
13. Patty-Industrial Hygiene and Toxicology
14. N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

Note to the user:
the information in this tab are based on knowledge available to us on the date of the latest version.
The user must ensure the fitness and completeness of the information in relation to the specific use of the product.
You should not interpret it as a guarantee of any specific property of the product.
For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

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