

Safety Data Sheet

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

1.1 Product identifier

CC DISK Zr (HT, HT Multilayer, SMILE Multilayer)

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

CC DISK Zr is intended for milling in CAD/CAM machines or hand operated copy type machines to produce crowns and bridges. For professional use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

INTERDENT d.o.o.

Production:

INTERDENT d.o.o.

Street:

Opekarniška cesta 26

Dol 1

Country code /Postal code/City:

SI-3000 Celje

SI-3342 Gornji Grad

Telephone:

+386(0) 425-62-00

Fax:

+368(0) 425-62-02

1.4 Emergency telephone number

Emergency phone:

112 (EU)

+386(0) 425-62-00 (Mon – Fri: 8.00 -16.00)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2 Label elements

None for the product.

2.3 Other hazards

Routes of Entry/Exposure:

Zirconium CC DISK in their usual solid form and under normal conditions do not present an inhalation, ingestion, or contact health hazard. Powder of the blank that can occur when product is treated manually is irritant to eyes, skin and respiratory organs.

Carcinogenicity:

IARC, NTP and OSHA do not list zirconium discs as a carcinogen.

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SECTION 3: Composition / information on ingredients**3.1 Mixtures****Ingredients: ZrO₂, Y₂O₃, HfO₂ (other oxides < 1%)**

Chemical name	CAS Nr.	%
ZrO ₂	1314-23-4	> 85
Y ₂ O ₃	1314-36-9	5 - 10
HfO ₂	12055-23-1	< 5

SECTION 4: First Aid Measures**4.1 Description of first aid measures***After inhalation:*

Remove to fresh air. If symptoms persist, call a physician.

After skin contact:

Wash off with soap and water. If skin irritation occurs, seek medical advice/attention.

After eye contact:

Rinse with plenty of water. If eye irritation persists, consult a specialist.

After swallowing:

Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed*Accute effects by product:* Not reported*Accute effects by component:* Not reported.*Chronic effects by product:* Not reported.*Chronic effects by components:* Not reported.**4.3 Indication of any immediate medical attention and special treatment needed**

n.a.

SECTION 5: Fire Prevention Regulations**5.1 Extinguishing media***Suitable extinguishing agents:*

Extinguishing methods depends upon fire in vicinity poses. The product itself does not burn.

Unsuitable extinguishing media:

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n.a.

5.2 Special hazards arising from the substance or mixture

Not known.

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Do not inhale explosion and combustion gases.

SECTION 6: Accidental Substance Release Regulations

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation and deposition of dust. Use personal protection equipment.

6.2 Environmental precautions

Prevent material from entering sewers or waterways.

6.3 Methods and material for containment and cleaning up

Dispose contaminated material according local law. Use mechanical handling equipment. Avoid dust formation. Fill into labelled, sealable containers.

6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust formation. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.

7.2 Conditions for safe storage, including any incompatibilities

Comply with the directives governing. Store in tightly closed containers in a dry place.

7.3 Specific end use(s)

Product is used in dental laboratories.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The OEL values products are not defined. Because of safety reasons the PEL values for ingredients should be considered:

PELOSHA (ZrO₂) = 5 mg/m³

PELOSHA (Y₂O₃) = 1 mg/m³

PELOSHA (HfO₂) = 0,5 mg/m³

Zirconium compounds (as Zr); CAS-No.: 1314-23-4

Base: EH40 (UK)

Threshold limits: TWA: 5 mg/m³, STEL: 10 mg/m³

8.2 Exposure controls

Personal protective equipment

Personal protection equipment in accordance with Directive (EU) 2016/425 and List for harmonized standards for OVO-2018/C 209/03.

General protection and hygienic measures:

Consider good industrial hygienic precaution and safety practice. Keep working clothes separately. Provide good ventilation. Do not breath dust. Wear personal protective equipment. Do not eat, drink or smoke when working. Wash hands when stop working and during breaks.

Breathing equipment:

Respiratory protective device with particle filter EN 143. Protective mask with FFP1 filter during treating and polishing.

Protection of hands:

Protective gloves during treating and polishing are recommended in accordance with EN 374-1:2016. Glove material: Butylrubber, natural rubber, nitrile rubber. The data about break through time/strength of material is not valid for undissolved solids/dust.

Eye protection:

Recommendation safety goggles (EN 166:2001) during treating and polishing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid
Colour	white
Odour	odourless

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Boiling point	n.a.
Melting point	n.a.
Density at 20°C	n.a.
Solubility in water	insoluble
Flash point	n.a.
Explosion limits	n.a.
9.2 Other information	
None	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not known.

10.2 Chemical stability

In the product form is stable under normal conditions.

10.3 Possibility of hazardous reaction

No hazardous reaction known if used and stored under normal conditions.

10.4 Conditions to avoid

n.a.

10.5 Incompatible materials

n.a.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicology information

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

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: No data available

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11.2 Information on other hazards

No other information available.

SECTION 12: Ecological information

12.1 Toxicity

In solid form this material poses no special environmental problems.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to EC 1907/2006 REACH, annex XIII.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effect

Not known

SECTION 13: Disposal consideration

13.1 Waste treatment methods

Dispose according to the local law.

16 03 04 inorganic wastes other than those mentioned in 16 03 03

SECTION 14: Transport Information

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	Sea (IMDG):	Air (IATA):
14.1 UN number	No data available			
14.2 UN proper shipping name	No data available			
14.3 Transport hazard class(es)	No data available			
14.4 Packing	No data available			

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group	
14.5 Environmental hazards	No data available
14.6 Special precautions for user	No special precautions
14.7 Maritime transport in bulk according to IMO instruments	No data available
Not a dangerous product within the meaning of the transport regulations.	

SECTION 15: Regulatory information

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

EU Label Information:

Classification and labeling have been performed according to Regulation 1272/2008.

EU Hazard Symbol and Indication of Danger:

According to Regulation EC 1272/2008 this product is not classified.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Revision:

Version 04 issued on January 2023 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Legend of abbreviations:

ADR - Accord européen relatif au transport international des marchandises dangereuses par route

CAS - Chemical Abstracts Service

CLP – Classification, labeling and packaging

CMR - Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived No-Effect Level

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EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EmS Emergency Schedule
GHS "Globally Harmonized System of Classification and Labelling of Chemicals"
IARC: International agency for research on cancer
IATA International Air Transport Association
IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods Code PBT persistent bioaccumulative, toxic
LD50: Median lethal dose; the dose causing 50% lethality
NTP: National toxicology program
OSHA: Occupational safety and health administration
OEL: Occupational exposure limit
OSHA PELs: Permissible Exposure Limits - 8-hour TWA (time-weighted average) concentrations unless otherwise noted.
PNEC Predicted No-Effect Concentration
PPM parts per million
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses št. vPvB very Persistent and very Bioaccumulative (zelo obstojno in se zelo lahko kopiči v organizmih)

References:

IARC (2006); International Agency for Research on Cancer (IARC).
<http://monographs.iarc.fr/ENG/Classification/>

NTP, Report on Carcinogens. 2016.
<https://ntp.niehs.nih.gov/pubhealth/roc/>

OSHA; Exposure limits and health effects.
https://www.osha.gov/dts/chemicalsampling/data/CH_229100.html

Disclaimer of expressed and implied warranties:

The information contained in the safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.