

Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP) and 453/2010/EC

Printing date 11.11.2013

Version number 1

Revision: 11.11.2013

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

1.1 Product identifier

Trade name **Titan Blanks stepped**
Article number: **58961**

Article number: 58961

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

No further relevant information available.

Application of the substance / the preparation

Metall alloy for dental technology
Processing aid

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BK Giulini GmbH
Member of ICL Group
Works Ludwigshafen, Giulinistraße 2
D-67065 Ludwigshafen

www.icl-pp.com
Tel: +49 621 5709 01
Fax: +49 621 57096452

Information:

Business Unit Materials
Works Ladenburg Phone +49 6203 / 77-7172
Works Ludwigshafen Phone +49 621 / 5709-6523
Contact MSDS: MSDS@icl-pp.com

1.4 Emergency telephone number:

Works Ladenburg Phone +49 6203 / 77-112
Works Ludwigshafen Phone +49 621 / 5709-112

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not to be classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements

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

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Titanium alloy

Dangerous components: Void

SVHC No

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

4 First aid measures

. 4.1 Description of first aid measures

- . **General information** No special measures required.
- . **After inhalation** : Supply fresh air; consult doctor in case of symptoms.
- . **After skin contact** : Wash with water and soap.
- . **After eye contact** : Rinse opened eye for 15 minutes under running water. Then consult doctor.
- . **After swallowing** :
Rinse out mouth and then drink plenty of water (approx. 500 ml).
In case of persistent symptoms consult doctor.

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

No further relevant information available.

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

No further relevant information available.

5 Firefighting measures

. 5.1 Extinguishing media

. Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water jet. Fight larger fires with foam.

ABC powder

Sand

. For safety reasons unsuitable extinguishing agents

Water.

. 5.2 Special hazards arising from the substance or mixture

Fire can cause release of :

Metal vapor and metal oxides as fumes.

. 5.3 Advice for firefighters

. Protective equipment: Do not inhale explosion gases or combustion gases.

6 Accidental release measures

. 6.1 Personal precautions, protective equipment and emergency procedures

Avoid causing dust.

Wear protective clothing.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

. 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies.

. 6.3 Methods and material for containment and cleaning up: Collect mechanically.

. 6.4 Reference to other sections

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

7 Handling and storage

. 7.1 Precautions for safe handling

Prevent formation of dust.

Provide suction extractors if dust is formed.

Ensure good ventilation/exhaustion at the workplace.

Extractors are required on all machines used for thermal processing or metal removal processes.

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- . Information about protection against explosions and fires: No special measures required.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** Store only in the original container.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.
- . **7.3 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 section 7.
- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:**
- . **CAS No. Designation of material % Type Value Unit**
- General dust exposure limit, German TRGS 900 (2009) 3 mg/m³
measured as alveolic part
- . **Additional information:** The lists that were valid during compilation were used as a basis.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**
- The usual precautionary measures should be adhered to in handling the chemicals.
- Wash hands during breaks and at the end of the work.
- Do not eat, drink or smoke while working.
- Avoid contact with the eyes and skin.
- Do not inhale dust / smoke / mist.
- . **Breathing equipment:**
- Use breathing protection in case of insufficient ventilation.
- Short term filter device: ABEK-filter
- Filter P3.
- . **Protection of hands:**
- Protective gloves:
- In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
- Layer thickness of gloves at least: 0.4 mm
- In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
- Layer thickness of gloves at least: 0.7 mm
- . **Material of gloves**
- Butyl rubber, BR
- Fluorocarbon rubber (Viton)
- Nitrile rubber, NBR
- Natural rubber, NR
- Chloroprene rubber, CR
- Neoprene gloves
- . **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 (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

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9 Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form: Solid

Colour: Grey

. Smell: Odourless

. Odour threshold: Not applicable

. pH-value: Not applicable

. Change in condition

Melting point/Melting range: 1650 - 1700 °C

Boiling point/Boiling range: Not applicable

. Flash point: Not applicable

. Inflammability (solid, gaseous) Not applicable

. Ignition temperature: Not applicable

. Decomposition temperature: Not determined

. Danger of explosion: Product is not explosive.

. Critical values for explosion:

Lower: Not applicable

. Oxidizing properties Not applicable

. Steam pressure: Not applicable

. Density at 20 °C ca. 4.4 g/cm³

. Evaporation rate Not applicable

. Solubility in / Miscibility with

Water: Insoluble

. Partition coefficient (n-octanol/water): Not applicable

. Viscosity:

dynamic: Not applicable

. 9.2 Other information No further relevant information available.

10 Stability and reactivity

. 10.1 Reactivity No hazardous reactions when stored and handled according to instructions.

. 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: Formation of metal vapor when melting

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11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** Moderate irritation
- . **Additional toxicological information:**
Inhalation of dust may cause irritation of the respiratory tract.
Irritation of the eyes and skin is possible from direct contact with the dust.
- . **Sensitisation** No sensitizing effect known.
- . **Repeated dose toxicity** No further relevant information available.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

12 Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** No further relevant information available.
- . **Other information:** Inorganic salts are basically not biodegradable.
- . **12.3 Bioaccumulative potential** Does not accumulate in organisms
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Other information:**
No COD, no BOD, no AOX
No VOC according to EC-directive 1999/13/EC
- . **Additional ecological information:**
- . **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated in adherence to official regulations.
- . **European waste catalogue**
06 03 15* metallic oxides containing heavy metals
- . **Uncleaned packaging:**
- . **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packagings.

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14 Transport information

- . 14.1 UN-Number
. ADR, IMDG, IATA Void
- . 14.2 UN proper shipping name
. ADR, IMDG, IATA Void
- . 14.3 Transport hazard class(es)
. ADR, IMDG, IATA
. Class Void
- . 14.4 Packing group
. ADR, IMDG, IATA Void
- . 14.5 Environmental hazards: Not applicable.
- . 14.6 Special precautions for user Not applicable.
- . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- . Transport/Additional information: Not dangerous according to the above regulations.
- . UN "Model Regulation": -

15 Regulatory information

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. **Department issuing data specification sheet:** Product Safety and Regulatory Affairs

. **Contact:** MSDS@icl-pp.com

. **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)

ICAO: International Civil Aviation Organization

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

GHS: Globally Harmonized 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)