

Safety Data Sheet (SDS)

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 01/24/2014

Reviewed on 08/28/2013

1 Identification

- **Product identifier**
- **Trade name: Stainless Steel Pediatric Primary Molar Dental Crowns**
- **Product number:** KTR DentalCrown
- **Product description**
Stainless Steel Primary Molar Dental Crowns , 48 individual sizes all made from same Stainless Steel
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KTR,LLC
8500 Menaul Blvd. NE, Ste. A-400
Albuquerque, NM 78521
1-800-506-5108
- **Emergency telephone number:** Guy Tann 505-275-1222

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Additional information:**
This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

- **Label elements**
- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



3 Composition/information on ingredients

| | | |
|-----------|------|--------|
| 7439-89-6 | iron | 70-90% |
|-----------|------|--------|

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

| | | |
|--------------------------------|--|--------|
| • Dangerous components: | | |
| 7440-47-3 | chromium ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2B, H320 | 15-35% |
| 7440-02-0 | nickel ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317 | 5-10% |

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7439-96-5 manganese

≤ 2.5%

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **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

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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.

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• **Control parameters**

• **Components with limit values that require monitoring at the workplace:**

| 7440-47-3 chromium | |
|----------------------------|--|
| PEL | Long-term value: 1* 0.5** mg/m ³ *metal;**inorganic compds., as Cr |
| REL | Long-term value: 0.5* mg/m ³ *metal+inorg.compds.as Cr;See Pocket Guide App. C |
| TLV | Long-term value: 0.5 mg/m ³ |
| 7440-02-0 nickel | |
| PEL | Long-term value: 1 mg/m ³ |
| REL | Long-term value: 0.015 mg/m ³ as Ni; See Pocket Guide App. A |
| TLV | Long-term value: 1.5* mg/m ³ elemental, *inhalable fraction |
| 7439-96-5 manganese | |
| PEL | Short-term value: C 5 mg/m ³ as Mn |
| REL | Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ fume, as Mn |
| TLV | Long-term value: 0.02* 0.1* mg/m ³ as Mn; *respirable **inhalable fraction |

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

• **Breathing equipment:** Not required.

• **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Select glove material based on penetration times, rates of diffusion and degradation.

• **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 determined and observed by the manufacturer of the protective gloves.

• **Eye protection:** Not required.

9 Physical and chemical properties

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

• **General Information**

• **Appearance:**

Form:

Solid metal

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| | |
|--|---|
| <ul style="list-style-type: none"> Color: · Odor: · Odour threshold: · pH-value: · Change in condition <li style="padding-left: 20px;">Melting point/Melting range: <li style="padding-left: 20px;">Boiling point/Boiling range: · Flash point: · Flammability (solid, gaseous): · Ignition temperature: · Decomposition temperature: · Auto igniting: · Danger of explosion: · Explosion limits: <li style="padding-left: 20px;">Lower: <li style="padding-left: 20px;">Upper: · Vapor pressure: · Density @ 20 °C (68 °F): · Relative density · Vapour density · Evaporation rate · Solubility in / Miscibility with <li style="padding-left: 20px;">Water: · Partition coefficient (n-octanol/water): · Viscosity: <li style="padding-left: 20px;">Dynamic: <li style="padding-left: 20px;">Kinematic: · Solvent content: <li style="padding-left: 20px;">Organic solvents: <li style="padding-left: 20px;">Solids content: · Other information | <ul style="list-style-type: none"> Silver grey Odorless Not determined. Not applicable. Not determined. Undetermined. Not applicable. Not determined. 580 °C (1076 °F) Not determined. Product is not selfigniting. Product does not present an explosion hazard. Not determined. Not determined. Not applicable. 7.81054 g/cm³ (65.179 lbs/gal) Not determined. Not applicable. Not applicable. Insoluble. Not determined. Not applicable. Not applicable. 0.0 % 100.0 % No further relevant information available. |
|--|---|

10 Stability and reactivity

- **Reactivity**
- **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.

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|----------|---|
| 7440-47-3 | chromium | 3 |
| 7440-02-0 | nickel | 1 |

- **NTP (National Toxicology Program)**

| | | |
|-----------|--------|---|
| 7440-02-0 | nickel | R |
|-----------|--------|---|

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even 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:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material

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- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

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

• **Section 355 (extremely hazardous substances):**

7723-14-0 | red phosphorus

• **Section 313 (Specific toxic chemical listings):**

7440-47-3 | chromium

7440-02-0 | nickel

7439-96-5 | manganese

7440-50-8 | copper

7440-62-2 | vanadium

7723-14-0 | red phosphorus

• **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

• **Proposition 65**• **Chemicals known to cause cancer:**

7440-02-0 | nickel

• **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

• **Carcinogenic categories**• **EPA (Environmental Protection Agency)**

7440-47-3 | chromium | D

7439-96-5 | manganese | D

7440-50-8 | copper | D

7723-14-0 | red phosphorus | D

• **TLV (Threshold Limit Value established by ACGIH)**

7440-47-3 | chromium | A4

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| | | |
|-----------|------------|----|
| 7440-02-0 | nickel | A5 |
| 7439-98-7 | molybdenum | A3 |

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | |
|-----------|--------|
| 7440-02-0 | nickel |
|-----------|--------|

- **OSHA-Ca (Occupational Safety & Health Administration)**

Corrosive to eyes

- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material

- **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

- **State Right to Know**

| | | |
|-----------|--|--------|
| 7439-89-6 | iron | 70-90% |
| 7440-47-3 | chromium ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2B, H320 | 15-35% |
| 7440-02-0 | nickel ⚠ Carc. 2, H351; STOT RE 1, H372; ⚠ Skin Sens. 1, H317 | 5-10% |
| 7439-96-5 | manganese | ≤ 2.5% |
| 7440-21-3 | silicon ⚠ Flam. Sol. 2, H228; ⚠ Acute Tox. 4, H302; Eye Irrit. 2B, H320 | ≤ 2.5% |
| 7440-50-8 | copper | ≤ 2.5% |

None of the ingredients is listed.

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 01/24/2014 / -

- **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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)