

(REACH Regulation (EC) N° 1907/2006 - N° 453/2010)

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TEK-1 Leg**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Commercial product name: TEK-1 Leg

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

Relevant identified uses of the substance or mixture: Manufacturing of a fixed or removable dental prosthesis in a dental laboratory

1.3 Details of the supplier of the safety data sheet**Manufacturer:**

The Argen Corporation
5855 Oberlin Drive
US-92121-4718, San Diego, CA
Technical Service: +1-800-255-5095
Customer Care: +1-800-255-5095
+1-858-626-8686
Fax:
E-mail / Website: info@argen.com / www.argen.com

Supplier:

SILADENT Dr. Böhme & Schöps GmbH
Im Klei 26
DE - 38644 Goslar
+49 (0) 53 21 / 37 79 - 0
+49 (0) 53 21 / 38 96 32
Fax:
E-mail / Website: info@siladent.de / www.siladent.de

1.4 Emergency telephone number:

Chemtrec: 1-703-741-6090 (collect calls accepted - German and English)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture:**

Classification information
This product does not meet the classification criteria in (EC) N° 1272/2008 (CLP).
This product does not meet the labelling criteria stated in 67/548/EWG and 1999/45/EC.

2.2 Labelling elements:

Labelling is in accordance with (EC) No 1272/2008 (CLP Regulation). Label elements in the solid form which the product is marketed.

2.3 Other hazards:**Eye contact:**

Contact with eyes may cause severe irritation and possible eye burns.

Skin contact:

May cause severe irritations or burns.

After swallowing:

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

After inhalation:

May cause irritations or burns of the respiratory system.

Carbon:

Dust causes irritation and is possibly allergenic. Cases of pulmonary fibrosis and emphysema have resulted from prolonged inhalation of dust.

Chrome:

May cause histological fibrosis of the lungs. There are some references to chromium causing lung and/or nasal cancer. In addition, chromium metal has caused tumours in laboratory

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animals via implant and intravenous routes. Chromium is listed as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).

Manganese:

Dust inhalation may cause tightness and pain in chest, coughing, and difficulty in breathing. Inhalation of dust may cause headache, nausea, vomiting, shortness of breath, or blurred vision. Dust may irritate skin or eyes. Ingestion may cause central nervous system depression. Prolonged inhalation of Manganese in the form of its inorganic compounds may cause Manganism. Target organs: Respiratory system, central nervous system, blood, kidneys. Medical conditions generally aggravated by exposure: Chronic respiratory disease, liver or kidney disorders, psychiatric disorders, alcoholism, and nerve system disorders.

Molybdenum:

Chronic inhalation of molybdenum compounds by experimental animals has caused appetite and weight loss, diarrhoea, muscular incoordination, hair loss and gout. Excessive intake of molybdenum may interfere with copper metabolism.

Results of PBT and vPvB assessment:**PBT:**

Not applicable.

vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances: This product is not a substance - This is not applicable

3.2 Mixtures**Ingredients:**

Metal	%	Symbol	CAS-no.	EC-No.	ACGIH 8 HR TLV	OSHA 8 HR PEL
IRON	<1	Fe	7439-89-6	231-096-4	5 mg/m ³	10mg/m ³
Cobalt	61	Co	7440-48-4	231-158-0	0,05mg/m ³	No data
Silicium	1	Si	7440-21-3	231-130-8	10 mg/m ³	10 mg/m ³ (total dust) 5 mg/m ³ (respiratory dust)
Carbon	<1	C	7440-44-0	231-153-3	3.5 mg/m ³	3.5 mg/m ³
Molybdenum	6	Mo	7439-98-7	231-107-2	Not established	Not established
Chrome	27	Cr	7440-47-3	231-157-5	0.5 mg/m ³	0,5 mg/m ³ CRVI compounds: Ceiling=0,1mg/m ³
Manganese	<1	Mn	7439-96-5	231-105-1	5 mg/m ³	5 mg/m ³
Tungsten	5	W	7440-33-7	231-143-9	5 mg/mn	5 mg/mn

Note: % values are in weight percent and reflect nominal composition.

Note: 'x' denotes a content of less than one percent

SECTION 4: First aid measures

4.1 After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

After skin contact:

Scrub skin thoroughly with soap and water.
If victim is conscious and alert, give 2-4 cupful of milk or water

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After ingestion: If victim is conscious and alert, give 2-4 cupful of milk or water. Induce vomiting. **Never give anything by mouth to an unconscious person. Get medical aid.

After inhalation: Remove affected person to fresh air and assist with additional oxygen if necessary. Get first aid if other symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed: None known.

4.3 Indication of any immediate medical attention and special treatment needed: None known.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents: Metal fire powder, sand.

5.2 Special hazards arising from the substance or mixture: Heating Beyond the melting range may generate fumes which are not flammable.

5.3 Special protective measures and equipment for fire-fighters: Wear protective clothing and use a self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal safety precautions:

Advice for non-emergency personnel: Use proper personal protective equipment as described in section 8.

For emergency responders: Use proper personal protective equipment as described in section 8.

6.2 Environmental precautions: Collect contaminated material in separate containers. Discharge according to local regulations.

6.3 Methods for cleaning up: Avoid creating dust and pick-up using mechanical means.

6.4 Reference to other sections: No data available.

SECTION 7: Handling and storage

7.1 Information for safe handling: Ensure the workspace has proper ventilation. Do not consume substances during work. General protective and hygiene measures. Wash hands before and after breaks. Remove contaminated clothing immediately. Do not ingest, or allow to come into contact with the eyes.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage facilities and containers: Keep container closed in a ventilated area.

7.3 Specific uses: No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters: Occupational exposure limits

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TEK-1 Leg**8.2 Exposure controls:**
Respiratory protection:

RESPIRATORY: Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 3. Wear a NIOSH approved respirator for dust exceeding the TLVs.
Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or moulds.

Eye protection:

Wear eye protection suitable to each individual operation.

Further precautions:

Wear apron, lab coat or other protective clothing.

SECTION 9: Physical and chemical properties

9.1 Appearance:

Colour:	white
Odour:	Not applicable.
pH-value:	Not applicable.
Boiling point / boiling range:	Not applicable.
Melting point / Melting range:	1350-1385°C
Flash point:	Not applicable.
Flammability:	Not applicable.
Self-ignition:	Not applicable.
Danger of explosion:	Not applicable.
Oxidising properties:	Not applicable.
Vapour pressure:	Not applicable.
Solubility in water:	Insoluble.

9.2 Other information:

None.

SECTION 10: Stability and reactivity

10.1 Reactivity:

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

10.2 Chemical stability:

Product is stable under normal storage and handling conditions. See Section 7.

10.3 Possibility of hazardous reactions:

Hydrogen gas can possibly form if the product comes into contact with acid.

10.4 Conditions to avoid:

N/A if the product is handled according to the Instructions for Use.

10.5 Materials to avoid:

Acid.

10.6 Hazardous decomposition products:

None are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

No special requirements, see section 2 & 3

SECTION 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability:

No data available.

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12.3 Bioaccumulation potential:	No data available.
12.4 Mobility:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other harmful effects:	No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:	
Product:	Dust should be recovered as it has an economic value.
Packaging:	Empty container completely and dispose according to local regulations.

SECTION 14: Transport information

14.1 UN-number:	This product is not subject to ADR/RID/AND regulations.
14.2 Proper UN shipping name:	This product is not subject to ADR/RID/AND regulations.
14.3 Transport hazard class:	This product is not subject to ADR/RID/AND regulations.
14.4 Packing group:	No data available.
14.5 Environmental hazards:	No data available.
14.6 Special precautions for user:	None.
14.7 Transportation in bulk according to Annex II of MARPOL73/78 and IBC Code:	Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations:	Water hazard class: 1, accord. VwVwS (self-assessment)
15.2 Chemical safety assessment:	A chemical safety assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge, apply to the product as delivered and serve to describe the safety precautions of the product. However this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.