according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N

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

1.1. Product identifier Product form: Tradename: Product description:

Mixture Keralloy N Non precious casting alloy based on nickel for metal ceramic

UFI:

- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- Relevant identified uses: Manufacturing of dental prosthesis in dental laboratories 1.3. Details of the supplier of the safety data sheet

Manufacturer: Street / mailbox: Country code. / postal code / city: Phone: Fax: E-mail / Website: Contact e-mail:

Supplier: Street / mailbox: Country code. / postal code / city: Phone: Fax: E-mail / Website:

Emergency telephone number:

Mesa Italia S.r.l. Via dell' Artigianato, 35/37 IT - 25039 Travagliato / Brescia +39 (0) 30 6863251 +39 (0) 30 6863252 info@mesaitalia.it / www.mesaitalia.it quality@mesaitalia.it

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 info@siladent.de / www.siladent.de

+39 (0)30 6863251 (8:00 - 17:00 h)

### **SECTION 2: Hazards identification**

2.1. Cla	Classification of the substance or mixture		
Cla	Classification according to Regulation (EC) No 1272/2008 [CLP]:		
Sk	Skin Sens. 1 H317 May cause an allergic skin reaction.		
Re	esp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Mu	uta. 2	H341	Suspected of causing genetic defects.
Ca	arc. 1B	H350	May cause cancer.
Re	epr. 1B	H360F	May damage fertility.
Aq	quatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.

Special hazards information for human and No information available. environment:

2.2. Label elements

1.4.

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

In the form in which it is marketed, the product causes no danger to health for humans through inhalation, swallowing or contact with the skin. There is therefore no obligation to label the product in accordance with: Regulation 1272/2008 (CLP: annex I; 1.3.4.: "Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers").

If the product form in the as-supplied state is changed through further processing (e.g. through grinding, polishing, electrical discharge machining, welding or melting) and dust or vapours are produced, there may be danger from hazardous components in product.

Hazard pictograms (CLP):



Signal word (CLP):

Danger



according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N



	components of labelling: Cobalt
Hazard statements (	,
H317:	May cause an allergic skin reaction.
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341:	Suspected of causing genetic defects.
H350:	May cause cancer.
H360F:	May damage fertility.
H413:	May cause long lasting harmful effects to aquatic life.
Precautionary statem	nents (CLP):
P273:	Avoid release to the environment.
P280:	Wear protective gloves, protective clothing, eye protection, face protection.
P308+P313:	IF exposed or concerned: Get medical advice/attention.
P304 + P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing
P342 + P311:	If experiencing respiratory symptoms: Call a doctor.
P362 + P364:	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards Results of PBT and vPvB assessment: PBT: vPvB: Not applicable. Not applicable.

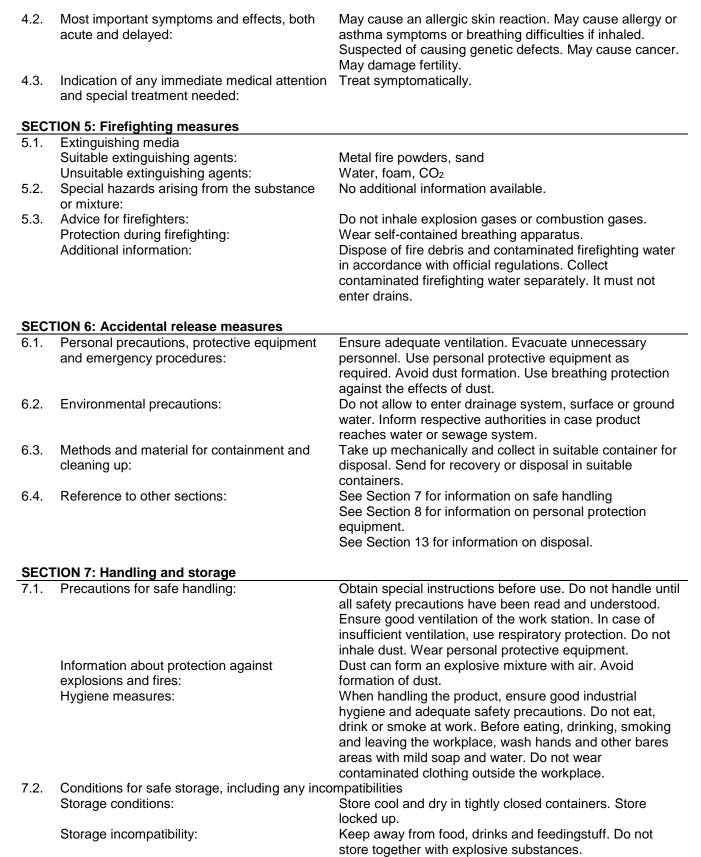
### **SECTION 3: Composition/information on ingredients**

3.1.	Substances:	Not applicable	
3.2.	Mixtures		
	Description:	alloy	
	Dangerous components:	·	
	(CAS No) 7440-02-0	Nickel (Ni)	63 %
	(EC No) 231-111-4	H317 skin sens 1, H372 STOT RE 1, H351 carc 2	
	(CAS No) 7440-47-3	Chromium (Cr)	25 %
	(EC No) 231-157-5	Not classified	
	(CAS No) 7439-98-7	Molybdenum (Mo)	9 %
	(EC No) 231-107-2	Not classified	
	(CAS No) 7440-21-3	Silicon (Si)	2%
	(EC No) 231-130-8		
	(CAS No) 7440-03-1	Niobium (Nb)	1 %
	(EC No) 231-113-5		

### **SECTION 4: First aid measures**

4.1.	Description of first aid measures			
	General information:	Instantly remove any clothing soiled by the product. Take affected persons into the open air. IF exposed or concerned: Get medical advice/attention.		
	After inhalation:	In case of unconsciousness bring patient into stable side position for transport. Supply fresh air. If experiencing respiratory symptoms: Call a doctor.		
	After skin contact:	Instantly wash with water and soap and rinse thoroughly. If skin irritation or rash occurs: Get medical advice/attention.		
	After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
	After swallowing:	Rinse mouth. Drink plenty of water as a precaution. Get medical advice/attention.		

according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N



LGK 10-13

🔊 SILAD

Page 3 of 7

Printing date: 02.02.2024

Storage class:

according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N



7.3. Specific end use(s):

No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection** 8.1. Control parameters

•	Control parar (ACGIH/14 - AIDII/14)	CAS No.	Name	TLV - TWA	TLV - STEL	Critical effects
		7440-21-3	Silicon	10 mg/m3 (inhalable fraction) 3 mg/m3 (respirable fraction)	-	-
		7439-98-7	Molybdenum	10 mg/m3 (inhalable fraction)	-	-
		7440-47-3	Chromium	3 mg/m3 (respirable fraction) 0.5 mg/m3	-	-
		7440-02-0	Nickel	1.5 mg/m3	-	-

### 8.2. Exposure controls

Appropriate engineering controls:

Personal protective equipment: Protection of hands:

Material of gloves: Penetration time of glove material:

Eye protection: Breathing equipment: Ensure adequate ventilation so that concentrations do not exceed the applicable standard values.

Wear suitable gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Latex, Nitrile rubber (> 0.1 mm)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Tightly sealed safety glasses (EN 166).

In case of dust formation or inadequate ventilation wear respiratory protection. Breathing apparatus with filter P. Not necessary if room is well-ventilated. Protective work clothing. Avoid release to the environment.

Body protection: Environmental exposure controls:

## **SECTION 9: Physical and chemical properties**

9.1.	Information on basic physical and chemical properties		
	Physical state:	Solid	
	Colour:	Metallic	
	Odour:	No data available	
	Melting point/Freezing point:	1400 °C	
	Boiling point or initial boiling point and boiling range:	No data available	
	Flammability:	No data available	
	Lower and upper explosion limit:	Not applicable	
	Flash point:	Not applicable	
	Auto-ignition temperature:	Product is not self-igniting.	
	Decomposition temperature:	No data available	
	pH:	No data available	
	Kinematic viscosity:	Not applicable	
	Solubility:	Water: Not miscible.	
	Partition coefficient n-octanol/water (log value):	Not applicable	
	Vapour pressure:	No data available	
	Density and/or relative density:	8.3 g/cm <sup>3</sup> (20 °C)	
	Relative vapour density:	Not applicable	
	Particle characteristics:	No data available	
9.2.	Other information		
	Explosive properties:	Product is not explosive. However, during processing formation of explosive dusts is possible.	

according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N



### **SECTION 10: Stability and reactivity**

SEC	ION 10: Stability and reactivity	
10.1.	Reactivity:	Under normal conditions of use no dangerous reactions known.
10.2.	Chemical stability: Thermal decomposition / conditions to be avoided:	Stable under recommended storage and application conditions according to section 7. No decomposition if
10.4.	Possibility of hazardous reactions: Conditions to avoid: Incompatible materials:	used according to specifications. Possible hydrogen formation upon contact with acids. None, if handled according to intended use. Acids. Strong oxidising agents.
	Hazardous decomposition products:	Metal oxides.
	FION 11: Toxicological information	
11.1.	Information on hazard classes as defined in F Acute toxicity:	Regulation (EC) No 1272/2008 Not classified
	noute toxicity.	Based on available data, the classification criteria are not met.
	Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met.
	Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met.
	Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
	Germ cell mutagenicity: Carcinogenicity:	Suspected of causing genetic defects. May cause cancer.
	Reproductive toxicity:	May damage fertility.
	Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met.
	Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met.
	Aspiration hazard:	Not classified Based on available data, the classification criteria are not met.
11.2.	Information on other hazards	
	Potential adverse human health effects and symptoms:	Inhalation of vapours in high concentration may cause metal fume fever and may cause damage of the central nervous system in case repeated and prolonged exposure. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract. Inhalation of metal-containing dusts may cause acute poisoning, leading to nausea, vomiting and abdominal pain.
	TION 12: Ecological information	
12.1.	Toxicity Acute aquatic toxicity:	Not classified
40.0	Chronic aquatic toxicity:	May cause long lasting harmful effects to aquatic life.
	Persistence and degradability: Bioaccumulative potential:	No further information available. No further information available.
12.4.	Mobility in soil:	No further information available.
125	Results of PRT and vPvR assessment	

12.4. Mobility in soil:12.5. Results of PBT and vPvB assessment PBT:

Not applicable.

according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N

vPvB:
-------

- 12.6. Endocrine disrupting properties:
- 12.7. Other adverse effects:

### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods Recommendation:

Disposal must be made according to official regulations. Do not dispose of with domestic waste. Do not allow product to reach sewage system.

European waste catalogue		
18 00 00	Wastes from human or animal health care and/or related research (except kitchen and	
	restaurant wastes not arising from immediate health care	
18 01 00	Wastes from natal care, diagnosis, treatment or prevention of disease in humans	
18 01 06*	Chemicals consisting of or containing dangerous substances	

Not applicable.

No further information available.

No further information available.

Waste code number:

The waste code number according to the Regulation of the European Waste Catalogue (EWC) is dependent on the waste producer and can therefore be different for a product. The waste code number must therefore be determined separately by each waste producer.

### **SECTION 14:**Transport information

14.1.	UN number or ID number	
	ADR, IMDG, IATA:	This product is not subject to transport regulations.
14.2.	UN proper shipping name	
	ADR, IMDG, IATA:	Not applicable
14.3.	Transport hazard class(es)	
	ADR, IMDG, IATA:	Not applicable
14.4.	Packing group	
	ADR, IMDG, IATA:	Not applicable
14.5.	Environmental hazards	
	Dangerous for the environment:	No
	Marine pollutant:	No
	Special marking:	No supplementary information available
14.6.	Special precautions for user:	Not applicable
14.7.	Maritime transport in bulk according to IMO	Not applicable
	instruments:	

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU-Regulations:
Contains no substance on the REACH candidate list.
Contains no substance on the REACH Annex XIV List.
National regulations:
No additional information available.
15.2. Chemical safety assessment:

## SECTION 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. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

mixture were not carried out by the supplier.

Adjustments compared to earlier versions: General revision, adaptation to Regulation (EU) 2020/878



according to Regulation (EU) 2020/878 Date of issue: 03.04.2013 Date of revision: 15.01.2024 Version/replaced Version 7.0/6.0 Keralloy N



Full text of H- and EUH-phrases: H317: H334: H341: H350: H360F:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility.
H413:	May cause long lasting harmful effects to aquatic life.
Abbreviations and acronyms: ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and
DMEL: DNEL: EC50:	packaging of substances and mixtures Derived Minimal Effect Level Derived No-Effect Level The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA: IMDG:	maximum response (Median Effective Concentration) International Air Transport Association "International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50:	Lethal Concentration to 50 % of a test population (Median Lethal
LD50: LOAEL: NOAEC/L: NOEC/L: OECD: PBT: PNEC: REACH:	Concentration) Lethal Dose to 50% of a test population (Median Lethal Dose) Lowest Observed Adverse Effect Level No Observed Adverse Effect Concentration/Level No Observed Effect Concentration/Level Organisation for Economic Cooperation and Development Persistent, Bioaccumulative and Toxic substance Predicted No-Effect Concentration Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS: STP: UFI: vPvB: Aquatic Chronic 4:	Safety Data Sheet Sewage Treatment Plant Unique Formula Identifier Very Persistent and Very Bioaccumulative Hazardous to the aquatic environment — Chronic Hazard, Category
Carc. 1B: Muta. 2: Repr. 1B: Resp. Sens. 1: Skin Sens. 1:	4 Carcinogenicity, Category 1B Germ cell mutagenicity, Category 2 Reproductive toxicity, Category 1B Sensitisation — Respiratory, category 1 Sensitisation — Skin, category 1