

**Material Safety Data Sheet**

For welding consumables and related products  
Conforms to Workplace Hazardous Materials Information  
System (WHIMS) Rev. Nov. 1988  
May be used to comply with Osha's Hazard Communication  
Standard, 29 CFR 1910.1200. Standard must be consulted for  
specific requirements.  
Maybe used to comply with **Council Directive 2006/121/EC**  
relating to the classification, packaging and labelling of  
dangerous substances.  
Blank spaces are not permitted. If any item is not applicable, or  
no information is available, the space must be marked to  
indicate that.

**1. Product and Company Identification****1.1 Product information.****Product type:**

solid wire, high alloyed

**Product name:****LAWI 16****1.2 Supplier:**LAWITEX GmbH  
Hitdorfer Str. 10 c  
40764 Langenfeld**2. Composition/Information on Ingredients**

Description:

This product contains of  $\geq 1$  Gew.  
-% Nickel and  $< 1$  Gew.-% Cobalt.

Risky ingredients:

This product contains no risky  
Ingredients

CAS-Nr.

Nickel Cobalt  
7440-02-0 7440-48-2

Type of Ingredient:

not listed

Ingredient [Gew.-%]:

not listed

Danger icon

not listed

Risk category:

not listed

**3. Hazards Identification**Different kinds of fume and dust  
occur during the welding and grinding  
process. Nickel oxides might occur, which  
are classified as carcinogenic. In addition  
irritant substances such as fluorides and  
manganese oxides as well as fine dusts  
(mostly iron oxides) occur.**4. Emergency and first aid procedures**Remove from dust of fume exposure. If breathing has stopped perform artificial respiration. Summon  
medical aid immediately.

Inhalation:

If breathing is difficult, provide fresh air  
and call physician.

Skin contact:

For skin burns from arc radiation, see  
physician. Affected skin has to be washed  
carefully with soap.

Eye contact:

For radiation burns due to arc flash, see  
physician. Under flowing water wash out  
the wide opened eyelid

After swallow:

not listed

**5. Fire fighting measures**not usable, the product is neither  
flammable nor explosive  
not usable

possible fire extinguishing:

**6. Accidental release measures****Release**

not usable

**7. Handling and Storage****7.1 Handling**

Advise of precaution measures:

UVV (VBG 15) has to be followed

**7.2 Storage**

Standards for stockrooms/container:

special standards for stockrooms/container  
do not exist

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**8. Exposure Controls/Personal Protection****8.1 additional advises**

The measures under point

**for technical machines**

7.1 has to be taken into consideration

**8.2 Components with working place related limit Values which must be supervised****Identification of Substance****CAS-No.****limit value**

Nickel

7440-02-0

0,5 mg/m<sup>3</sup> (TRK)

Cobalt

7440-48-2

0,1 mg/m<sup>3</sup> (MAK)

Nickel oxide

1313-99-1

0,5 mg/m<sup>3</sup> (TRK)

Cobalt oxide

1397-96-6

0,1 mg/m<sup>3</sup> (MAK)

Mangan oxid (Mn304)

1317-35-7

1,0 mg/m<sup>3</sup> (MAK)

Fluorides

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6,0 mgm<sup>3</sup> (MAK)

Ozone

10028-15-6

0,2 mg/m<sup>3</sup> (MAK)**8.3 Personal safety equipment**

Respiratory, hand, eye,

Safety and hygienic protection

follow UVV (VBG 15) §27

in the workroom drinking or eating is not allowed.

**9. Physical and Chemical Properties**

manifestation:

solid wire, high alloyed

safety relevant data:

not applicable

**10. Stability and Reactivity**

avoid contact with acids and bases

Product is stable until 1200C.

**11. Toxicological Information**

follow point 3

**12. Ecological Information:**

Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater.

**13. Disposal Considerations****Waste Disposal Method:**

Prevent waste from contaminating the surrounding environment. Discard any product, residue, disposable, container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

**14. Transport Information**

No international regulations or restrictions are applicable

**15. Regulatory Information****15.1 registration mark****not listed**

registration letter

not listed

Danger icon

not listed

Risk category

not listed

Security category

not listed

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**15.2 National regulations**

Advice of working restrictions

not usable

Malfunction V:

not usable

classification about VbF:

not usable

technical instructions AIR:

1 mg/m<sup>3</sup>, bei einem  
Massenstrom > 5 g/h

Danger grade of water:

not expected

Other regulations:

not announced

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**16. Other information****literature:**

Unfallverhütungsvorschriften  
(VBG 15) Schweißen Schneiden  
und verwandte Verfahren  
DVS-Merkblatt 1201: Absaugung  
an Schweißarbeitsplätzen  
DVS-Faltblätter zum Arbeitsschutz  
beim Schweißen  
DVS-Fachbuch Unterweisung von  
Schweißern im Arbeitsschutz  
Kraume, Zober: Arbeitssicherheit  
und Gesundheitsschutz in der  
Schweißtechnik