

**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.

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

**Product type:** solid wire electrode, high-alloyed

**Product name:** **NFL 180 / 2.1367**

**1.2 Supplier:** LAWITEX GmbH  
Hitdorfer Str. 10 c  
40764 Langenfeld

**2. Composition/Information on Ingredients**

**Description:** This product contains nickel, manganese, copper and iron.

**Risky ingredients:**

CAS-Nr.	7440-02-0	7439-89-6	7440-50-8	1317-35-7
Type of Ingredient:	Ni	Fe	Cu	Mn
Ingredient [weight-%]:	>= 1	50-100 %	50-100 %	10-25 %
Danger icon	X <sup>n</sup>	not listed	not listed	not listed
Risk category:	R 40/43	not listed	not listed	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

**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:** Avoid humidity and temperature Shocks. Keep separate from chemical Substances like acids which could cause Chemical reactions.

**7.2 Storage**

**Standards for stockrooms/container:** special standards for stockrooms/container do not exist

**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.

**8. Exposure Controls/Personal Protection****8.1 additional advises  
for technical machines**

The measures under point

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) total weight

Nickel-oxide

1313-99-1

0,5 mg/m<sup>3</sup> (TRK) total weightManganese (Mn<sub>3</sub>O<sub>5</sub>)

1317-35-7

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

Copper

7440-50-8

1,0 mg/m<sup>3</sup> (TRK) total weight

Copper dust

7440-50-8

0,1 mg/m<sup>3</sup> (TRK) total weight

Fluorides

-

6,0 mg/m<sup>3</sup> (TRK) total weight

Ozone

10028-15-6

0,2 mg/m<sup>3</sup> (TRK) total weight**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 to**9. Physical and Chemical Properties**

manifestation:

solid wire electrode, high-alloyed

safety relevant data:

not applicable

**10. Stability and Reactivity**

avoid contact with acids and bases

Product is stable until 1200 C.

**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

**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.

---

**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>, to a

stream &gt; 5 g/h

Danger grade of water:

not expected

Other regulations:

not announced

---

**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