

1. Product and Company Identification**1.1 Product information****Product type:** solid wire electrode, high-alloyed**Product name:** **NFL 181 / 2.0922****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	0,5-2,0 %	50-100 %	2,5-10 %
Danger icon	X ⁿ	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

possible fire extinguishing:

not usable

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

Standarts for stockrooms/container:

special standards for stockrooms/container do not exist

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/m³ (TRK) total weight

Nickel-oxide

1313-99-1

0,5 mg/m³ (TRK) total weight

Manganese (Mn3O5)

1317-35-7

0,5 mg/m³ (TRK) total weight

Copper

7440-50-8

1,0 mg/m³ (TRK) total weight

Copper dust

7440-50-8

0,1 mg/m³ (TRK) total weight

Fluorides

-

6,0 mg/m³ (TRK) total weight

Ozone

10028-15-6

0,2 mg/m³ (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 900 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/m³, to a

stream > 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