

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 165 / 1.4337**

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

2. Composition/Information on Ingredients

Description: This product contains nickel, chrome and iron.

Risky ingredients:

CAS-Nr. 7440-02-0 7440-47-3 7439-89-6

Type of Ingredient: Ni Cr Fe

Ingredient [weight-%]: >/= 1 10-50 % 50-100 %

Danger icon Xⁿ not listed not listed

Risk category: R 40/43 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

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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
Chromium	7440-47-3	1,0 mg/m ³ (TRK) total weight
Nickel	7440-02-0	0,5 mg/m ³ (TRK) total weight
Nickel-oxide	1313-99-1	0,5 mg/m ³ (TRK) total weight
Manganese (Mn3O5)	1317-35-7	0,5 mg/m ³ (TRK) total weight
Fluorides	-	6,0 mg/m ³ (TRK) total weight
Ozone	10028-15-6	0,2 mg/m ³ (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

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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/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