

**1. Product and Company Identification****1.1 Product information****Product type:** solid wire electrode, high-alloyed**Product name:** **NFL 160 / 1.3348****1.2 Supplier:**LAWITEX GmbH  
Hitdorfer Str. 10 c  
40764 Langenfeld**2. Composition/Information on Ingredients****Description:** This product contains of  $\geq 1$  weight-%  
chrome, molybdenum and iron.**Risky ingredients:****CAS-Nr.** 7439-89-6 7440-47-3 7439-98-7**Type of Ingredient:** Fe Cr Mo**Ingredient [weight-%]:** 50-100 % 0-10 % 2,5-10 %**Danger icon** not listed not listed not listed**Risk category:** 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 caus  
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 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<sup>3</sup> (TRK) total weight

Manganese (Mn3O5)

1317-35-7

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

Fluorides

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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:  
 safety relevant data:

solid wire electrode, high-alloyed  
 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

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.

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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> , to a stream > 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