

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:****NFL Si 5 / 3.2245****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.

not listed

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

possible fire extinguishing:

not usable

**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:

spezial standarts for stockrooms/container do not exist

**Material Safety Data Sheet**

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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
Aluminium	7429-90-5	2,1 mg/m <sup>3</sup> (MAK) Gesamtst
Manganese oxide (Mn <sub>3</sub> O <sub>4</sub> )	1317-35-7	1,0 mg/m <sup>3</sup> (MAK) Gesamtst.
Fluorides	-	6,0 mg/m <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 to

**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:	5 mg/m <sup>3</sup> , bei einem Massenstrom > 25 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