LAWITEX

1.2

Welding technology

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.

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1. **Product and Company Identification**

1.1 **Product information**

Product type: solid wire electrode, high-alloyed

Product name:

Supplier:

NFL 172 / 1.6356

LAWITEX GmbH

Hitdorfer Str. 10 c

40764 Langenfeld

2. Composition/Information on Ingredients

Description: This product contains nickel, iron, cobalt

and molybdenum.

Risky ingredients:

CAS-Nr. 7440-02-0 136-52-7 7439-89-6 7439-98-7 Type of Ingredient: Ni Co Fe Mo Ingredient [weight-%]: >/= 110-50 % 50-100 % 2.5-10 % Danger icon \mathbf{X}^{n} not listed not listed Α Risk category: R 40/43 R 45/5 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 neighter

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 seperate 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



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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/m ³ (TRK) total weight
	Nickel-oxide	1313-99-1	0,5 mg/m ³ (TRK) total weight
	Molybdenum	7439-98-7	0,5 mg/m³ (TRK) total weight
	Cobalt	136-52-7	0,5 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		, 8 ()
	Respiratory, hand, eye,		follow UVV (VBG 15) §27
	Safety and hyhienic protection		in the workroom drinking or eating is not allowed to
9.	Physical and Chemical Propert	ties	
	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

Malfunction V:

classification about VbF: technical instructions AIR:

Danger grade of water: Other regulations: not usable not usable not usable 1 mg/m3, to a

stream > 5 g/h not expected not announced

16. **Other information**

literature:

Unfallverhütungsvorschriften (VBG 15) Schweißen Schneiden und verwandte Verfahren DVS-Merkblatt 1201: Absaugung

DVS-Merkblatt 1201: Absaugung

 $an \ Schweiß arbeitspl\"{a}tzen$

DVS-Faltblätter zum Arbeitsschutz

beim Schweißen

DVS-Fachbuch Unterweisung von Schweißern im Arbeitsschutz Kraume, Zober: Arbeitssicherheit und Gesundheitschutz in der

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Schweißtechnik

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