

Material Safety Data Sheet
according to EC directive No. 91 / 155 EEC

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1. Product and company

1.1 Product Names: Laser Welding Wire for Copper, BECU and Ampco

1.2 Company's name Gesswein
201 Hancock Ave., Bridgeport, CT 06605
Phone: 203-366-5400, info@gesswein.com

1.3 Phone number for cases of emergency CHEMTELL - 800-255-3924

2. Hazards Identification

Description of the hazards: During welding and grinding smokes and dusts come into existence. Nickel oxides can come into existence, they are classified as cancer-causing. Furthermore, manganese oxides, respirable dusts (mostly ferric oxide) and ozone are generated.

3. Composition / Information on Ingredients

Description: The products contain more than 5 weight per cent Nickel.
The products contain no hazardous ingredients.

Hazardous ingredients: not applicable CAS: not applicable
Description: not applicable R phrases: not applicable
Content (weight per cent): not applicable
Code letter of danger symbol: not applicable

4. First-Aid Measures

- after inhaling: take deep breaths in fresh air, seek medical advice if plenty of dust is considerable
- after skin contact: wash concerned part of skin with soap carefully
- after eye contact: flush with flowing water with as well as opened palpebral fissure for several minutes
- after swallowing: not applicable
- References for doctor: control examination according to German labour protection laws (BG-Grundsätze G38-40)

5. Fire-Fighting Measures

not applicable, as the products are neither flammable nor explosible
applicable extinguishing devices: not applicable; in case of external burning: all

6. Accidental Release Measures

not applicable.

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7. Handling and Storage

7.1 Handling

Advises for safe use:

Please follow the regulations for the prevention of industrial accidents.

7.2 Storage

Requirements to storage rooms and boxes: There are no special requirements caused by safety.

8. Exposure Control and Personal Protection

8.1 Further advises for designing of technical constructions: Please follow the measures according to 7.1.

8.2 constituent parts with monitoring safety values related to job positions:

CAS-no.	Material's name	Limit value
1313-99-1	Nickel oxide	0,5 mg / m ³ (MAC value)
1317-35-7 not applicable	Manganese oxide	1 mg / m ³ (TLV) as total dust
10028-15-6	Respirable dust	6 mg / m ³ (TLV)
	Ozone	0,2 mg/m ³ (TLV)

8.3 personal protective equipment

The following personal protective equipment should be used dependent on the operation
(Please follow the regulations for the prevention of industrial accidents):

Eye protection:	Safety goggles
Dust protection:	Use of dust mask
Hand protection:	Use of protective gloves
Skin protection:	Use of suitable protective clothing.
Protection and hygienic measures:	Do not eat, drink or smoke in the working room

9. Physical and chemical properties

Appearance: solid wire
security-relevant data: not applicable

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10. Stability and Reactivity

Please avoid contact with acids or bases. The product is robust up to 1200°C.

11. Toxicological Information

see Point 3

12. Ecological Information

During the use of exhaust systems the limit values of the Clean Air Guidelines (TA Luft) are valid.

13. Disposal Considerations

Recommendation:

Please dispose dusts and particles of exhaust systems as hazardous waste.

Conventional scrapping of the products possible

Waste code no. 31217 filter dusts, metalliferous
 35315 other metalliferous waste material without aluminium or magnesium waste
 18711 paper filter with predominant inorganic contamination

uncleaned packages:

Cardboard boxes: Disposing by recycling, as not contaminated

Plastics: Disposing by recycling, as not contaminated

14. Transport Information

no dangerous products

15. Regulatory Information

15.1 marking:	none	code letter:	not applicable
indication of danger:	none	R phrases:	none
		S phrases:	none

15.2 national regulations

Advice for restriction of work:	not applicable
accident V:	not applicable
classification according to "German Ordinance on flammable liquids":	not applicable

technical instructions air:	5 mg / m ³ at mass flow > 5 g / h
water hazard class:	hazard is not expected
other directives:	not known

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Warning! The above indications are based on existing practice and do not constitute a guarantee.
The laws and regulations must be strictly followed by the users who stay responsible for the use of the product.

16. Other information

This Material Safety Data Sheet does not replace any technical manuals, it only completes them.
The information given here is according to our today's knowledge, does not assure any characteristics of the product and does not justify a contractual legal relationship.

It (MSDS) should only characterise the product as well as its relations to health, safety and furthermore to areal circumstances.

Furthermore, the risks of wrong use of the product should be shown to the user by this MSDS.

This Material Safety Data Sheet does not release the user from paying attention to national and local laws and instructions. The user himself is responsible for any safety arrangements.
It (MSDS) should only be a support to the user while he es working with the product.

This data sheet does not release the user from regarding to any laws and instructions which affect him, even when they are not listed here.

The user himself is responsible for holding and handling of the product according to existing laws and instructions.