



Safety Data Sheet
acc. to EC standard 91/155/EWG
UTP 6222 Mo

EGSDB
130800e
28.04.1997
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1 Product name / Trademark

nickel alloy

1.1 Details of product

Trade marks: **UTP 6222 Mo**

1.2 Manufacturer / Supplier

UTP Schweißmaterial GmbH & Co.KG
Elsässerstr. 10
79189 Bad Krozingen

call: (07633) 409-01 ; Telefax: (07633) 409222
Information: Marketing and Laboratory

for emergency calls: Giftinformation München ; Tel.: 089 / 41402211

2 Composition / Details of components

compound	content(%)	CAS-Nr.	EINECS-Nr.	mark	R-phrases
Nickel (Ni)	Bal	7440-02-0	231-111-4	Xn	40-43
Iron (Fe)	3	7439-89-6			
Chromium (Cr)	22	7440-47-3			
Manganese (Mn)	0,6	7439-96-5			
Niobium (Nb)	3,3	7440-03-1			
Molybdenum (Mo)	9	7439-98-7			

* The percentage varies according to the alloy.

3 Potential dangers

Special danger hints concerning man and environment

Welding and cutting of the product may form cancer-causing nickel-, manganese- and chromium-IV-oxides/dust, irritant fluorides and dust. The product contents more than 1% nickel. Alloy according to 88/197/EWG.

Classification: R40
R43

4 First aid / General hints

After inhalation: In case of illness patient should be moved to a well ventilated place. Should discomfort persist, seek medical advice.

Contact with skin: Wash skin with soap and copious of water.

Contact with eyes: In case of irritation , rinse with copious of. If irritation persists seek medical advice, seek medical advice.

After swallowing: Rinse with water. Seek medical advice.

5 Steps in case of fire

Extinguisher: all extinguishing agents usable
In case of fire use respirator.

6 Steps in case of evaporation

Precautions for man : avoid forming dust.



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Environmental measures : not appl.
Procedures for cleaning/absorption: not appl.

7 Handling and storage

7.1 Handling

Indications for safe handling: Good exhaust/ventilation system at working area, see § 5 of UVV-VGB 15 „Schweißen, Schneiden und verwandte Verfahren“.

Indications for combustion and explosion safety: Keep extinction material out of sewerage, ground or rivers. Take care of sufficient extinguishing possibilities.

Extinguishing reserve possibilities in Germany see „LÖRüRL“ (guiding rules).

Contaminated extinguishing material (water) has to be eliminated according to local administrative instructions.

Combustion sediments have to be duly cleared away.

Hints for fire- and explosion protection : use respirator

7.2 Storage

Dry storage

Requirements for storage: do not store together with strong acids and alkaline solutions.

Further storage conditions: none

8 Limit of personal exposure and personal equipment

8.1 Additional hints for lay-out of technical equipment

Kindly refer to measures acc. to para 7.1

8.2 Designation of components referring to limits according to the standards of exposure on working areas

CAS-No.	substances	Class	Value	Unit
7440-02-0	nickel	TRK	0,5	mg/m ³
1313-99-1	nickeloxide	TRK	0,5	mg/m ³
	-fluoride	MAK	2,5	mg/m ³
1309-37-1	ironoxide Fe ₂ O ₃ , F	MAK	6	mg/m ³
1333-82-0	chromiumtrioxide	TRK	0,2	mg/m ³
7429-90-5	manganese	MAK	0,5	mg/m ³
7439-97-7	molybdenum (com. dust limit)	MAK	6	mg/m ³

8.3 Personal protective equipment

Respiratory protection : In case of non existant or little ventilation/object exhaust use respiratory protection.

Hand protection : protective gloves.

Eye protection : Wear protective goggles during MIG welding.

Body protection: Wear adequate (protective) clothing.

Protection and hygenic measures: Keep away from food , beverages and feeding stuff if product has a dust consistency. Separate storage of protective clothing. Soiled clothing has to be absorbed , do not brush or blow. Do not inhale dust/smoke/mist. Do not eat, drink, smoke during work. Wash hands and face during brakes and after work.

9 Physical and chemical features

9.1 Appearance

Form: solid, wire

Colour: grey-brown

Smell: without odour



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9.2 Safety relevant data

wire
Changing of condition:
Melting point: >1000°C
Boiling point:
Flashpoint: not flammable
Danger of explosion: not explosive
Density at 20°C: 7,7-8,9 g/m³
Solubility in / mixable with water: not sol.

10 Stability and reactivity

Conditions to be avoided: not available
Agents to be avoided: acids / alkali solutions forming flammable (hydrogen) and poisonous (hydrofluoric) gas
Dangerous decomposition products : fluorides

11 Details of toxicology

Acute toxicity
Akute Toxizität:
LD/LC 50

component	value	spezies
Nickel	oral > 9000 mg/kg	rat

Primary irritation
to skin: continual contact with nickel may cause dermatitis to sensitive persons
to eyes:
According to EG Carc.Cat. 3 nickel may cause cancer.

12 Ecological details

General hints: Do not allow let in residues without pre-treating.

Water endangering class : 0

13 Hints for disposal of waste

Recommendation: metal recycling in accordance with the regulations issued by the appropriate local authorities
Code nos. (German national key for waste disposal): 31217
Used packing material:
Cardboard/Plastic: dispose of in accordance with the regulations issued by the appropriate local authorities.

14 Details of transport


No dangerous good according to the regulations:
ADR/RID und GGVS/GGVE, IMDG/GGVSee-Code, ICAO/IATA-DGR.

15 Directions

15.1 Markings according to EG-rules

The product is classified according to EWG-Regulation
Letter for marking: not necessary
Classification of danger: Xn (harmful)

R-letters: 20-40-43

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S-letters: 22-36-38

15.2 National directions / Instructions

Classification acc. to rules GefStoffV: Carc. Cat.3 R40-43
Accident degree:
Classification acc. to rules of inflammable goods: not available
Hints for limited worktime:
Classification of danger to water-solubility: 0
Other directions:

16 Miscellaneous details

The information of this Data Sheet is based on the current state of knowledge. UTP disclaims any liability or responsibility towards users of the product supplied who fail to comply with the recommendations for use set out in this Data sheet.

bibliographical reference:
TRGS 900 (Technische Regeln für Gefahrstoffe)
MAK- und BAT-Werte-Liste

Datasheet issuing area:

Quality Assurance / Laboratory

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