1 Product name / Trademark

nickel alloy

1.1 Details of product

Trade marks: **UTP 65** **UTP 65D**

1.2 Manufacturer / Supplier

UTP Schweißmaterial GmbH & Co.KG
Elsässerstr. 10
79189 Bad Krozingen
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Information: Marketing and Laboratory
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2 Composition / Details of components

compound	content(%)	CAS-Nr.	EINECS-Nr.	mark	R-phrases
Iron (Fe)	bal.	7439-89-6			
Chromium (Cr)	29-30	7440-47-3			
Nickel (Ni)	9,0-9,5	7440-02-0	231-111-4	Xn	40-43
Manganese (Mn)	1	7439-96-5			

3 Potential dangers

Special danger hints concerning man and environment
Welding and cutting of the product may form cancer-causing nickel and chromium-IV-oxides, irritant fluorides and dust. The product contents more then 1% nickel. Alloy according to 88/197/EWG.
Classification: R40, 43

4 First aid / General hints

After inhalation: Move into 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.
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 formation of dust
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 abd explosion safety: Keep extinction material out of sewerage, ground or waters.

Take care of sufficient extinguishing possibilities.
Extinguishing reserve possibibilities 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 :

7.2 Storage

Requirements for storage: Dry 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/m3
	-fluoride	MAK	2,5	mg/m3
1309-37-1	ironoxide Fe2O3, F	MAK	6	mg/m3
1333-82-0	chromiumtrioxide	TRK	0,2	mg/m3
7439-96-5	manganese	MAK	0,5	mg/m3

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
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 absorpted , do not brush or blow. Do not inhale dust/smoke/mist. Do not eat/drink/smoke during work. Wash hands during brakes and after work.

9 Physical and chemical features

9.1 Appearance

Form: solid, wire Colour: yellow Smell: without odour

9.2 Safety relevant data

Melting point:	>1000°C
Danger of explosion:	not explosive
Density at 20°C:	7,7-8,9g/m3
Solubility in / mixable with water:	app. 20 g/l (coating)

10 Stability and reactivity

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

11 Details of toxicology

LD 50, oral, rat: > 9000 mg/kg

to skin: continual contact with nickel may cause dermitis to sensitive persons
to eyes: cause irritation
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: Paper and 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:

14 Details of transport

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

15 Directions

15.1 Markings according to EG-rules

The product is classified according to Common market rules
Letter for marking:
Classification of danger: Xn
R-letters: 40-43
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.

1. Threshold Limit Value and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, 1992-1993.
2. National Toxicologie Program, 6th Annual Report on Carcinogens 1991.
3. Nickel and Human Health, E.Nieboer and J.O. Nriagu, Wiley, 1992.
4. Maximum Exposure Limit of the Health and Safety Executive in the U.K.-EH40/91.
5. Report of the International Committee on Nickel arcinogenesis in Man, Scand. J. of Work Environment and Health, Doll, R.,1990
6. TRGS, Technische Regeln für Gefahrstoffe

Datasheet issuing area: Quality Assurance / Laboratory

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