

# Safety Data Sheet acc. to EC standard 91/155/EWG UTP A 068HH

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## 1 Product name / Trademark

nickel alloy

## 1.1 Details of product

Trade marks: UTP A 068HH

## 1.2 Manufacturer / Supplier

UTP Schweißmaterial GmbH & Co.KG

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# 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	
Manganese (Mn)	3	7439-96-5				
Chromium (Cr)	20	7440-47-3				
Iron (Fe)	0,8	7439-89-6				
Niobium (Nb)	2,7	7440-03-1				
	Nickel (Ni) Manganese (Mn) Chromium (Cr) Iron (Fe)	Nickel (Ni) Bal Manganese (Mn) 3 Chromium (Cr) 20 Iron (Fe) 0,8	Nickel (Ni) Bal 7440-02-0 Manganese (Mn) 3 7439-96-5 Chromium (Cr) 20 7440-47-3 Iron (Fe) 0,8 7439-89-6	Nickel (Ni) Bal 7440-02-0 231-111-4 Manganese (Mn) 3 7439-96-5 Chromium (Cr) 20 7440-47-3 Iron (Fe) 0,8 7439-89-6	Nickel (Ni) Bal 7440-02-0 231-111-4 Xn Manganese (Mn) 3 7439-96-5 Chromium (Cr) 20 7440-47-3 Iron (Fe) 0,8 7439-89-6	Nickel (Ni) Bal 7440-02-0 231-111-4 Xn 40-43 Manganese (Mn) 3 7439-96-5 Chromium (Cr) 20 7440-47-3 Iron (Fe) 0,8 7439-89-6

# 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. The product contents more then 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 the event 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: not available Environmental measures: not available Procedures for cleaning/absorption: refer Nr. 13

# 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.



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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

Dry storage

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

Further storage conditions: none VbF-class: n.a.

## 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	
7439-96-5	Manganese, total dust	TRK	0,5	mg/m³	
1309-37-1	Ironoxide Fe2O3, F	MAK	6	mg/m³	
1333-82-0	Chromiumtrioxide	TRK	0,2	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 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 absorpted , 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 Colour: grey Smell: without odour

## 9.2 Safety relevant data

Changing of condition:

Melting point: 1200-1500 °C
Density at 20°C: 7,8-8,1 g/cm3
Solubility in / mixable with water: not soluble

# 10 Stability and reactivity

Conditions to be avoided: not available

Agents to be avoides: acids / alkali solutions forming flammable (hydrogen)

Dangerous decomposition products : none

## 11 Details of toxicology

Acute toxicity
Akute Toxizität:
LD/LC 50

component value spezies

Nickel oral > 9000 mg/kg rat



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Primary irritation

to skin: continual contact with nickel may cause dermitis to sensitive persons

to eyes:

snsitivity possible by skin contact

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 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/GGVS/GGVE, IMDG-Code, ICAO/IATA-DGR.

## 15 Directions

# 15.1 Markings according to EG-rules

The product is classified according to EG-Regulation.

Letter for marking: not neccessary

Classification of danger:

R-letters: 40-43 S-letters: 22-36

## 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.

Bibliography:

-Unfallverhütungsvorschrift (VBG 15): Schweißen, Schneiden und verwandte Verfahren

-DSV-Merkblatt 1201: Absaugung an Schweißarbeitsplätzen

-DSV-Faltblätter zum Arbeitsschutz beim Schweißen

-DSV-Fachbuch: Unterweisung von Schweißern im Arbeitsschutz

-Kraume, Zober: Arbeitssicherheit und Gesundheitsschutz in der Schweißtechnik

TRGS 900 (Technische Regeln für Gefahrstoffe)

MAK- und BAT-Werte-Liste

Datasheet issuing area: Quality Assurance / Laboratory

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