

Material Safety Data Sheet

According to 91/155 EEC

Printing date 09.12.2003

Reviewed on 09.12.2003

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** UTP 80 M
- **Application of the substance / the preparation** electrodes for welding
- **Manufacturer/Supplier:**
 UTP Schweißmaterial GmbH
 Elsässer Straße 10
 D-79189 Bad Krozingen
- Tel. +49 7633 409 01
 Fax +49 7633 409 227
- **Further information obtainable from:** QS department

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7440-02-0 EINECS: 231-111-4	nickel ☒ Xn; R 40-43	25-50%
CAS: 7440-50-8 EINECS: 231-159-6	copper	10-25%
CAS: 15096-52-3 EINECS: 239-148-8	trisodium hexafluoroaluminate ☒ T, ☒ N; R 20/22-48/23/25-51/53	2.5-10%
CAS: 1344-09-8 EINECS: 215-687-4	Silicic acid, sodium salt ☒ Xn; R 22-37/38-41	2.5-10%
CAS: 7439-96-5 EINECS: 231-105-1	manganese ☒ Xn; R 48	2.5-10%
CAS: 471-34-1 EINECS: 207-439-9	calcium carbonate	≤ 2.5%
CAS: 7789-75-5 EINECS: 232-188-7	calcium fluoride	≤ 2.5%
CAS: 7681-49-4 EINECS: 231-667-8	sodium fluoride ☒ T; R 25-32-36/38	≤ 2.5%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (pyrophoric)	≤ 2.5%

3 Hazards identification

- **Hazard description:**
 Welding electrodes and wires are non-hazardous solids at ambient temperature
- **Information concerning particular hazards for human and environment:** Not applicable.

4 First-aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** If skin irritation continues, consult a doctor.

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- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:**

7440-02-0 nickel

MEL	Long-term value: 0.5 mg/m ³ as Ni
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7440-50-8 copper

OES	Short-term value: 2** mg/m ³ Long-term value: 0.2* 1** mg/m ³ *fume **dusts and mists
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15096-52-3 trisodium hexafluoroaluminate

OES	Long-term value: 2.5 mg/m ³ as F
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7439-96-5 manganese

MEL	Long-term value: 0.5 mg/m ³
OES	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ fume, as Mn

471-34-1 calcium carbonate

OES	Long-term value: 10*4** mg/m ³ *total inhalable dust **respirable dust
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7789-75-5 calcium fluoride

OES Long-term value: 2.5 mg/m³
as F

7681-49-4 sodium fluoride

OES Long-term value: 2.5 mg/m³
as F

7429-90-5 aluminium powder (pyrophoric)

OES Long-term value: 10* 4** mg/m³
*total inhalable dust **respirable dust

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:** Heat protection gloves
- **Material of gloves:** Leather gloves
- **Eye protection:**
Wear helmet or use face shield with filter lens. Provide protective screens and flash goggles, if necessary, to shield others. As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go the next lighter shade which gives sufficient view of the weld zone.
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· **General Information**

Form: Solid
Colour: Brown
Odour: Odourless

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.
- **Solubility in / Miscibility with water:** Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

7440-02-0 nickel

Intraperitoneal LD50	250 mg/kg (rat)
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15096-52-3 trisodium hexafluoroaluminate

Oral LD50	>5 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation** Must be specially treated adhering to official regulations.

· **European waste catalogue**

12 01 13	welding wastes
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12 01 20	spent grinding bodies and grinding materials containing dangerous substances
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

· **Transport/Additional information:** Not dangerous according to the above specifications.

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15 Regulatory information

- **Labelling according to EU guidelines:**
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Hazard-determining components of labelling:**
nickel
trisodium hexafluoroaluminate
- **National regulations:**
- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
 - 20/22 *Harmful by inhalation and if swallowed.*
 - 22 *Harmful if swallowed.*
 - 25 *Toxic if swallowed.*
 - 32 *Contact with acids liberates very toxic gas.*
 - 36/38 *Irritating to eyes and skin.*
 - 37/38 *Irritating to respiratory system and skin.*
 - 40 *Limited evidence of a carcinogenic effect.*
 - 41 *Risk of serious damage to eyes.*
 - 43 *May cause sensitisation by skin contact.*
 - 48 *Danger of serious damage to health by prolonged exposure.*
 - 48/23/25 *Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.*
 - 51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- **Department issuing MSDS:** *QS department*