


1 Identification of the substance / preparation and of the company
1.1 Product identifier

Conductive Filler
Article number 20-8500

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant uses

See product information.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet
Company

Buehler GmbH

In der Steele 2
D-40599 Düsseldorf / GERMANY
Phone: 0800 707 6273
Fax: 0800 707 6274
Homepage: www.buehler-met.de/en/
E-mail: sales@buehler.co.uk

Address enquiries to
Technical information

sales@buehler.co.uk

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone
Company

0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

2 Hazards identification
2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms

Signal word

DANGER

Carc. 2 - H351 Suspected of causing cancer.
Skin Sens. 1 - H372 Causes damage to organs through prolonged or repeated exposure.
STOT RE 1 - H317 May cause an allergic skin reaction.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC
Hazard symbols

R-phrases

Toxic

R 43: May cause sensitisation by skin contact.
R 40: Limited evidence of a carcinogenic effect.
R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.
The product is classified and required to be labelled in accordance with EC-Directives



2.2 Label elements

Hazard pictograms**Signal word**

DANGER

Contains:

Nickel EU-INDEX 028-002-00-7

Hazard statements

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H317 May cause an allergic skin reaction.

Precautionary statements

P201 Obtain special instructions before use.

P281 Use personal protective equipment as required.

P308 P313 IF exposed or concerned: Get medical advice/attention.

P302 P352 IF ON SKIN: Wash with plenty of soap and water.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling

none

2.3 Other hazards

Physico-chemical hazards

See section 10.

Human health dangers

See section 11.

Environmental hazards

See section 12.

Other hazards

none

3 Composition / Information on ingredients

3.1 Product-type:

The product in question is a substance.

Range [%]	Substance
100	Nickel
	CAS: 7440-02-0, EINECS/ELINCS: 231-111-4, EU-INDEX: 028-002-00-7
	GHS/CLP: Carc. 2 - H351 - STOT RE 1 - H317 - Skin Sens. 1 - H372
	EEC: T, R 40-43-48/23

Comment on component partsSubstances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Ensure supply of fresh air.

Consult a doctor immediately.

Skin contact

In case of contact with skin wash off immediately with soap and water.

Supply with medical care.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Sand. Dry powder. Metal fire-ex powder.
Extinguishing media that must not be used	Water.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool containers at risk with water spray jet.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.
Ensure adequate ventilation.
Use personal protective equipment.
Use breathing apparatus if exposed to dust.
Keep away from all sources of ignition.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See section 8+13

7 Handling and storage

7.1 Precautions for safe handling

Avoid the formation and deposition of dust.
Provide vacuuming if dust raised.
Keep away from all sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with acids.
Do not store together with oxidizing agents.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.

7.3 Specific end use(s)

See product use, section 1.2


8 Exposure controls / personal protection
8.1 Control parameters
Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
100	Nickel
	CAS: 7440-02-0, EINECS/ELINCS: 231-111-4, EU-INDEX: 028-002-00-7
	Long-term exposure: 0,5 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Nitrile rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Light protective clothing.
Other	It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Remove soiled clothing.
Respiratory protection	Short term: filter apparatus, filter P3. Breathing apparatus in the event of high concentrations.
Thermal hazards	See section 7.
Delimitation and monitoring of the environmental exposition	not determined



9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Color	grey
Odor	odourless
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	2832
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	8,9 (25°C / 77,0°F)
Bulk density [kg/m³]	not determined
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	1453
Autoignition temperature [°C]	not determined
Decomposition temperature	not applicable

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong acids.
Reactions with oxidizing agents.
Auto-ignition at high temperatures.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See section 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.


11 Toxicological information
11.1 Information on toxicological effects
Acute toxicity

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	Sensitizing.
Specific target organ toxicity — single exposure	yes
Specific target organ toxicity — repeated exposure	yes
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	yes
General remarks	none

12 Ecological information
12.1 Toxicity
12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not applicable

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.



13 Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

060405*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*
150101
150102
150104

14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Road transport in accordance with ADR NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.



16 Other informations	
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R-phrases (section 03)	R 40: Limited evidence of a carcinogenic effect. R 43: May cause sensitisation by skin contact. R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.
Hazard statements (section 03)	H351 Suspected of causing cancer. H317 May cause an allergic skin reaction. H372 Causes damage to organs through prolonged or repeated exposure.
Observe employment restrictions for people	yes
VOC (1999/13/CE)	not applicable
Customs Tariff	not determined
Abbreviations and acronyms:	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform Chemical Information Database LC50 = Lethal concentration, 50% LD50 = Median lethal dose MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative
Modified position	none

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