

Page 1/10

Safety Data Sheet acc. to OSHA HCS

Printing date 06/15/2015

Reviewed on 06/13/2015

1 Identification

- · Product identifier
- · Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH DE
- · Application of the substance / the mixture Metal working
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Carpenter Technology Corp PO Box 14662, Reading, PA 19612 110 West Bern Street READING, PA 19601 USA
- · Information department: Health and Safety Department
- · Emergency telephone number: During normal opening times: +1 (610) 208-2134

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: nickel
- · Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

(Contd. on page 2)

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

(Contd. of page 1)

Wear protective gloves / eye protection / face protection.

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

If on skin: Wash with plenty of water.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3Fire = 0

REACTIVITY \bigcirc Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

7440-02-0 nickel	50-100
7440-47-3 chromium	10-<25
7439-98-7 molybdenum	2.5-<1
7440-32-6 titanium	0.1-<2.

4 First-aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: The product is not flammable.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Not applicable.
- · Information about protection against explosions and fires: Not applicable.
- · Conditions for safe storage, including any incompatibilities
- · 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: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

(Contd. of page 3)

· Control parameters

Coni	roi parameters			
Com	ponents with limit values that require monitoring at the workplace:			
7440	7440-02-0 nickel			
PEL	Long-term value: 1 mg/m³			
REL	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A			
TLV	Long-term value: 1.5* mg/m³ elemental, *inhalable fraction			
7440	-47-3 chromium			
PEL	Long-term value: 1* 0.5** mg/m³ *metal;**inorganic compds., as Cr			
REL	Long-term value: 0.5* mg/m³ *metal+inorg.compds.as Cr;See Pocket Guide App. C			
TLV	Long-term value: 0.5 mg/m³			
7439	-98-7 molybdenum			
PEL	Long-term value: 15* mg/m³ *Total dust			
TLV	Long-term value: 10* 3** mg/m³ as Mo; *inhalable fraction ** respirable fraction			

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH-DE

 $\cdot \textit{Eye protection:}$



(Contd. of page 4)

Information on basic physical and	chemical properties	
General Information		
Appearance: Form:	Solid	
Color:	According to product specification	
Odor:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition	,	
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	2672 °C (4842 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	5.14058 g/cm³ (42.898 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	99.1 %	

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

(Contd. of page 5)

· Other information

No further relevant information available.

10 Stability and reactivity

- Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

7440-02-0	nickel	1
7440-47-3	chromium	3
7440-48-4	cobalt	2
7440-38-2	arsenic	1
7439-92-1	lead	2
NTP (Nati	ional Toxicology Program)	
7440-02-0		
<u>.</u>	nickel	
7440-02-0	nickel arsenic	
7440-02-0 7440-38-2 7439-92-1	nickel arsenic	

12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 7)

Printing date 06/15/2015 Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

(Contd. of page 6)

- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADN, IMDG, IATA	not regulated
UN proper shipping name	
DOT, ADN, IMDG, IATA	not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	not regulated
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	·
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Section 355 (extremely hazardous substances):		
7723-14-0	red phosphorus	
13494-80-9	tellurium	

(Contd. on page 8)

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

		(Contd. of pa
	(Specific toxic chemical listings):	
7440-02-0		
7440-47-3		
7429-90-5		
7439-96-5	-	
7440-50-8		
7440-48-4		
1	red phosphorus	
7440-38-2	arsenic	
7440-22-4	silver	- PANA
7439-92-1	ead	
7440-28-0	hallium	
TSCA (Tox	c Substances Control Act):	
All ingredie	nts are listed.	·-···
Proposition	65	
Chemicals I	nown to cause cancer:	CONTRACTOR
7440-02-0	iickel	
7440-48-4	cobalt	
7440-38-2	arsenic	
7439-92-1	ead	
Chemicals 1 7439-92-1	nown to cause reproductive toxicity for females: ead	A
Chemicals I	nown to cause reproductive toxicity for males:	
7439-92-1	- · · · · · · · · · · · · · · · · · · ·	
Chemicals I	nown to cause developmental toxicity:	
7439-92-1	_ · · · · · · · · · · · · · · · · · · ·	
Carcinogen	ic categories	
	onmental Protection Agency)	· · · · · · · · · · · · · · · · · · ·
7440-47-3		D
7439-96-5	manganese	D
7440-50-8	4.	D
7723-14-0	red phosphorus	D
7440-42-8	boron	I (or
7440-38-2	arsenic	A
7440-22-4	silver	D
7439-92-1	lead	$\frac{1}{B2}$
	hold Limit Value established by ACGIH)	
L	· · · · · · · · · · · · · · · · · · ·	
TLV (Thres	nickel	
TLV (Thres		
7440-02-0 7440-47-3		

Printing date 06/15/2015 Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

			(Contd. of page 8)
Γ	7440-48-4	cobalt	A3
ľ	7440-38-2	arsenic	AI
	7439-92-1	lead	A3
Ĭ	· NIOSH-C	(National Institute for Occupational Safety and Health)	

· NIOSH-Ca (National Institute for Occupational Safety and Health)
7440-02-0 nickel
7440-38-2 arsenic

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: nickel
- · Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Wear protective gloves.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

If on skin: Wash with plenty of water.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out,

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.

- · Department issuing SDS: Environment protection department.
- · Date of preparation / last revision 06/15/2015 / 1
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 10)

(Contd. of page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 06/15/2015

Reviewed on 06/13/2015

Trade name: HIGH CB-DISK QUAL 718 HIGH STRENGTH - DE

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

* Data compared to the previous version altered.

- 119