

EC – Safety data sheet

in accordance with REACH Regulation (EC) 1907/2006 including amending regulation (EU) 2020/878
Issue date: October 13, 2021 Version 3 Replaced: February 1, 2024 Version: 4.1

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SOLIDUR CoCr

SECTION 1: Identification of the substance/mixture and company

1.1 Product Identification

1.2

Trade name: SOLIDUR CoCr / Model casting
Article Number: 960-1000 / 960-0250

1.2.1 relevant identified uses of the substance or mixture and uses advised against

Use of the substance/type of use: Manufacture of metal scaffolding

1.2.2 Uses advised against: No further information available

1.3 Supplier / company name: YETI Dentalprodukte GmbH

Street: Industriestraße 3

Postal code: D-78234 Engen Email: sdb@yeti-dental.com

Information about the substance/preparation: Tel. 0 77 33 / 94 10 0 FAX 0 77 33 / 94 10 22

1.4 Emergency information: Tel. 0 77 33 / 94 10 0
(Mon. – Thu. 8 a.m. – 4:30 p.m., Fri. 8 a.m. – 2 p.m.)

SECTION 2: Potential Hazards

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Special hazard warnings: the product does not require labeling due to this

For people and the environment, the general classification guidelines for preparations of the EC in the latest version.

Users: specialist personnel only

GHS label elements: the following labels do not apply to the Alloy but for processing possible fumes, smoke and dust that arise

H317 may cause an allergic skin reaction

H334 can cause allergy, asthma-like if inhaled
cause symptoms or difficulty breathing

H341 is believed to cause genetic defects

H350 can cause cancer

H360F may affect fertility

H413 may be harmful to aquatic organisms long-term effect.

Full text of H and EUH statements, see section 16

Harmful physicochemical, health and environmental effects

May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child.

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause long lasting harmful effects to aquatic life.

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2.2 Labeling elements:

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Information text for labels: Contains cobalt

The product does not require labeling as an alloy if it meets the criteria of Annex I
Section 1.3.4.1 of CLP is complied with.



Signal word (CLP) Danger

Contains cobalt

Hazard statements (CLP)

H317-may cause an allergic skin reaction

H334-may cause allergy, asthma symptoms or breathing difficulties if inhaled.

H341-suspected of causing genetic defects

H350-may cause cancer

H360F-may damage fertility

H413-may cause long lasting harmful effects to aquatic life

Safety statements (CLP)

P201 Obtain special instructions before use

P261 Avoid breathing dust

P273 Avoid release to the environment

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

P302+P352 IF ON SKIN: Wash with plenty of water

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P342+P311 If respiratory symptoms occur: Contact a poison control center/doctor

P501-Dispose of contents and container to a hazardous or special waste collection point in
accordance with local, regional, national and/or international regulations.

2.3 other dangers

During grinding, oxides (silicon, molybdenum, tungsten, cobalt) and manganese compounds (cobalt and chromium oxides) are produced that are harmful to the lungs. Avoid inhaling grinding dust. If necessary, use a suction system. Observe the prescribed dust limit values (6mg/m³). Observe limit values for manganese, chromates and cobalt oxides.

Does not contain PBT/vPvB substances $\geq 0.1\%$, assessed according to REACH Annex XIII

The mixture does not contain any substances listed due to endocrine disrupting properties in accordance with REACH Article 59(1) or has been prepared in accordance with the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 determined that it does not contain any substances with endocrine-disrupting properties in a concentration of at least 0.1%.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable. The product is not a substance

3.2 Mixtures: Chemical characterization

Mixture of the substances listed below with non-hazardous additions

Name Product Identifier	%	Classification according to Regulation (EC) No.1272/2008 [CLP]
Cobalt CAS:7440-48-4 EC No.231-158-0 EC Index 027-001-00-9	60-65	Carc.1B, H350, Muta.2 H341, Repr.1B, H360F, Resp.Sens.1 H334, Skin Sens.1 H317 Aquatic Chronic 4, H413
Chromium CAS:7440-47-3 EC No.231-157-5	25-30	not classified
REACH:01-2119485652-31		
Substance for which a Community workplace exposure limit applies		

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

If medical advice is required, have packaging or labeling available. Remove all contaminated clothing immediately and wash before wearing again. First aiders: pay attention to self-protection!

After inhalation:

If breathing is difficult, move the affected person to fresh air and immobilize them in a position that makes breathing easier. If breathing difficulties or respiratory arrest occur, initiate artificial respiration. If there is a risk of unconsciousness, position and transport in a stable side position. Call in a doctor immediately.

after skin contact

Wash off immediately with soap and water and rinse thoroughly. In case of skin reactions, consult a doctor.

After eye contact

Rinse immediately with running water for 10-15 minutes while keeping the eyelids open. Remove existing contact lenses in advance. Visit an ophthalmologist.

After swallowing

Rinse your mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Danger of aspiration. If swallowed, followed by vomiting, aspiration into the lungs may occur, resulting in chemical pneumonia or asphyxia. Call in a doctor immediately.

4.2 Important acute and delayed symptoms and effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Product dust may cause eye irritation.

If swallowed, no symptoms/effects under normal circumstances

Chronic symptoms: May cause cancer. Suspected of causing genetic defects. May damage fertility.

4.3 Information about immediate medical attention or special treatment

Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable. Extinguishing agents are according to The align the environment. foam, dry chemical powder, Carbon dioxide.

Unsuitable extinguishing media: full water jet

5.2 Special hazard: Possible release of toxic fumes. In case of fire can arise:

cobalt oxide. Molybdenum trioxide. VANADIUM PENTOXIDE.

5.3 Advice for band fighting Do not attempt to work without suitable protective equipment

to become. Ambient air dependent Respirator. Full protective clothing.

Material is non-explosive and non-flammable in the atmosphere.

SECTION 6: Accidental release measures

General measures

Remove any possible source of ignition. Evacuate bystanders.

6.1.1. Non-emergency trained staff

Emergency measures

Only qualified personnel in suitable protective equipment may intervene. Avoid breathing dust, gas, vapors.

6.1.2. emergency services

protective gear

Do not attempt to operate without appropriate protective equipment. Further information: see section 8 "Exposure controls/personal protection".

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6.1.2. emergency services protective gear

Do not attempt to operate without appropriate protective equipment. Further information: see section 8 "Exposure controls/personal protection".

6.2 Environmental measures

Avoid release into the environment. If the product enters sewers or public waters, inform the authorities.

6.3 Methods and material for containment and cleaning up

Containment: Use a clean shovel to fill into dry containers. Do not compress

Cleaning up: Collect mechanically. If the product enters sewers or public waters, inform the authorities.

Other: Substances and residual quantities in solid form must be disposed of at an approved facility.

6.4 Reference to other sections: See section 13

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

advice for safe handling

Avoid any resulting dust and vacuum it up. Wear a protective mask.

Hygiene measures:

Separate work clothing from normal clothing. Clean separately. Do not wear contaminated work clothing outside the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms

Dry premises. Sealed containers. Protect goods from movement.

Information on common storage: Not applicable

Further information on storage: None

Storage class (LGK) LGK 6.1D - Non-flammable, acutely toxic Cat. 3 / toxic or chronically acting hazardous substances

SECTION 8: Exposure controls/personal protection

8.1. Parameters to monitor

8.1.1 National occupational exposure limits and biological limits

Cobalt (7440-48-4)
Germany - Limiting exposure in the workplace (TRGS 910)
Local name Cobalt and cobalt compounds, classified as Carc.1A, Carc.1B
Acceptance concentration (weight conc.) 0.16 µg/m³ (A)
Remarks b) Acceptance concentration associated with risk 4:10,000
Tolerance concentration (weight conc.) 5 µg/m³ (A)
Note (4) Concentrations refer to the elemental content of the corresponding metal.; See TRGS 561
Legal reference TRGS 910
Chrome (7440-47-3)
EU - Indicative Occupational Limit Value (IOEL)
Local name Chromium metal
IOEL TWA 2 mg/m³
Note (Chromium, anorg. CrII and CrIII compounds, insoluble)
Legal reference COMMISSION DIRECTIVE 2006/15/EC
Germany - Limiting exposure in the workplace (TRGS 900)
Local name chromium and inorganic chromium (II) and (III) compounds
AGW (OEL TWA) [1] 2 mg/m³ (E)
Excess factor/peak limitation 1(I)

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Note EU - European Union (an air limit value has been set by the EU: deviations in value and peak limitation are possible); 10 - The occupational exposure limit refers to the element content of the corresponding metal

Legal reference TRGS900

8.1.2. Recommended monitoring procedures: No further information available

8.1.3. Released air contaminants: No further information available

8.1.4. DNEL and PNEC values

Chromium (7440-47-3)
DNEL/DMEL (workers)
Long-term - local effects, inhalation 0.5 mg/m ³
DNEL/DMEL (general population)
Long-term - local effects, inhalation 0.027 mg/m ³
PNEC (water)
PNEC aqua (freshwater) 0.65 µg/l
PNEC (sediments)
PNEC sediment (freshwater) 205.7 mg/kg dry weight
PNEC (soil)
PNEC soil 21.1 mg/kg dry weight

8.1.5. Control banding No further information available.

8.2. Limitation and monitoring of exposure

8.2.1. Appropriate technical control devices

Appropriate tech. Control devices: Ensure that the workplace is well ventilated.

8.2.2. Personal protective equipment

8.2.2.1. Eye and face protection

Eye protection: Safety glasses with side shields (EN 166)

8.2.2.2. skin protection

Skin and body protection: long-sleeved work clothing (DIN EN ISO 6530).

General protective and hygiene measures

Hand protection:

Chemical-resistant protective gloves. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account

Hand protection			
Type Material Permeation	Thickness	(mm)	Norm Penetration
Impermeable			
Protective gloves nitrile rubber (NBR)	6(>480 minutes)	0.4	EN ISO 374

8.2.2.3. Respiratory protection

If ventilation is inadequate, wear respiratory protection. No respiratory protection is required for normal use

8.2.2.4. Thermal hazards

No further information available

8.2.3. Limiting and monitoring environmental exposure

Limiting and monitoring environmental exposure:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical state	Solid
Color	gray/silver
Appearance	Ingots
Odor	Odorless
Odor threshold	Not available
Melting point	1360 – 1410 °C
Freezing point	Not applicable
Boiling point	Not available
Flammability (solid, gaseous)	Non-combustible.
Explosion limits	Not applicable
Lower explosion limit (LEL)	Not applicable
Upper explosion limit (UEL)	Not applicable
Flash point:	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH value	Not applicable
pH solution	Not available
Viscosity, kinematic	Not applicable
Solubility	Not available
distribution coefficient	
n-Octanol/Water (Log Kow)	Not available
Vapor pressure	Not applicable
Vapor pressure at 50°C	Not available
Density	Not available
Relative density	Not available
Relative vapor density at 20°C	Not applicable

9.2. Other Information No further information available

9.2.1. Information about physical hazard classes
No further information available

9.2.2. Other safety-related parameters No further information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of dangerous reactions

There are no known dangerous reactions under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids and bases.

10.6. Dangerous decomposition products

No hazardous decomposition products should be formed under normal storage and use conditions.

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SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Acute toxicity (Oral) Harmful if swallowed.

Acute toxicity (Dermal) Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) Not classified (Based on available data, the classification criteria are not met)

SOLIDUR CoCr	
Chromium (7440-47-3)	
LC50 inhalation rat	>5.41 mg/l air rat – (OECD method 403)
Cobalt (7440-48-4)	
LD50 dermal rat	> 2000 mg/kg body weight rat (OECD method 402)
LC50 inhalation – rat	≤ 0.05 mg/l air rat male – (OECD method 436)

Skin corrosion/irritation Not classified (Based on available data, the classification criteria are not met)

pH value: Not applicable

Serious eye damage/irritation causes serious eye irritation.

pH value: Not applicable

Respiratory or skin sensitization May cause allergy, asthma-like symptoms or breathing difficulties if inhaled. May cause allergic skin reactions.

Germ cell mutagenicity Not classified. (Based on available data, the classification criteria are not met)

Carcinogenicity May cause cancer if inhaled.

Reproductive toxicity Suspected of affecting fertility.

Specific target organ toxicity for single exposure Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity for repeated exposure Not classified (Based on available data, the classification criteria are not met)

Chrome (7440-47-3)	
LOAEC (inhalation, rat, dust/mist/smoke, 90 days)	>0,0044 mg/l air LOAEC (inhalation, rat 90days meth.413)

Aspiration hazard Not classified (Based on available data, the classification criteria are not met)

11.2. Information about other dangers: No further information available

SECTION 12: Ecological information

12.1. toxicity

Ecology – General May cause long-term harmful effects to aquatic organisms.

hazardous to water,

Short-term (acute) Not classified (Based on available data, the classification criteria are not met)

hazardous to water,

long-term (chronic) Not classified (Based on available data, the classification criteria are not met)

Chrome (7440-47-3)	
EC50 Daphnia 1	13,1-14,7 mg/l Test organisms (species): Daphnia magna

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12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in the ground

12.5. Results of the PBT and vPvB assessment

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties (according to REACH Article 59(1) or Regulation 2017/2100 or Regulation 2018/605) in a concentration of >0.1%

No further information available

13.1. Waste treatment methods

Dispose of via wastewater in accordance with local official regulations.

Do not dispose of with household waste

Packaging recommendation	Observe disposal of solids in accordance with official regulations
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Additional information Do not reuse empty containers

European waste 06 04 05 – Wastes containing other heavy metals. Inventory (LoW, EC2000/532)

Gem. ADR/IMD/IATA/ADN/RID

14.1 UN number or ID number

ADR, ADN, IMDG, IATA	not regulated
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14.2 UN proper shipping name

ADR, ADN, IMDG, IATA, RID not regulated

14.3 Transport hazard classes

ADR, ADN, IMDG, IATA, RID	not regulated
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14.4 Packaging group

ADR, AND, IMDG, IATA, RID	not regulated
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14.5 Environmental hazards:

ADR, AND, IMDG, IATA, RID not regulated

14.6 Special precautions for the User

Land transport	not regulated
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Land transport	not regulated
Sea transport	not regulated

Sea transport	not regulated
Air transport	not regulated

Air transport	not regulated
Inland waterway transport	not regulated

inland waterway transport	not regulated
Rail transport	not regulated

14.7 Bulk carriage by sea in accordance with IMO instruments

not applicable.

Transport/further information: Not dangerous goods according to the above regulations

UN "Model Regulation": not applicable

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SECTION 15: Legislation

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

15.1.1. EU regulations

REACH Annex XVII (Restriction List)

Does not contain any substances listed in REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorization List)

Does not contain any substances listed in REACH Annex XIV (Authorization List)

REACH Candidate List (SVHC)

Does not contain any substances listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Does not contain any substances listed on the PIC List (Regulation EU 649/2012 on the export and import of dangerous chemicals)

POP Regulation (Persistent Organic Pollutants)

Does not contain any substances listed on the POP List (Regulation EU 2019/1021 on Persistent Organic Pollutants)

Ozone Regulation (1005/2009)

Does not contain any substances listed on the Ozone depletion list (EU Regulation 1005/2009 on substances that deplete the ozone layer)

Regulation on explosives precursors (EU 2019/1148)

Does not contain any substances listed on the list of explosives precursors (EU Regulation 2019/1148 on the marketing/use of explosives precursors)

Drug precursor regulation (EC 273/2004)

Does not contain any substances listed on the list of drug precursors (EC Regulation 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Employment restrictions

Observe restrictions in accordance with the Maternity Protection Act (MuSchG).

Observe restrictions in accordance with the Youth Employment Protection Act (JArbSchG).

Water hazard class (WGK)

Water hazard class 3 highly hazardous to water (classification according to AwSV, Annex 1)

Chemicals Prohibition Ordinance (ChemVerbotsV)

This product is subject to the ChemVerbotsV Appendix 2 Entry 1. Observe the following requirements:

A1) Permit requirement according to Section 6 Paragraph 1 Sentence 1.A2 Basic requirements for carrying out the information according to Section 8 Paragraphs 1, 3 and 4.A3

Identification and documentation according to Section 9 Paragraphs 1 to 3.A4

Exclusion of the shipping route according to Section 10

Major Accident Ordinance (12BlmSchV)

Not subject to the Major Accident Ordinance (12BlmSchV)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
BKF bioconcentration factor
ATE acute toxicity estimate.
DMEL Derived exposure level with minimal adverse effects
DNEL Derived exposure level without adverse effects
IATA Association for International Air Transport
IMDG dangerous goods regulations for international sea transport
RID regulations for the international carriage of dangerous goods by rail
DOT Department of Transportation
TDG dangerous goods transport
REACH Regulation on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, Regulation (EC) No. 1907/2006
GHS Global Harmonized System of Classification and Labeling of Chemicals
IARC International Agency for Research on Cancer
vPvB Very persistent and very bioaccumulative
PBT Persistent, bioaccumulative and toxic substance
PNEC Estimated no-effect concentration
IBC Code International safety regulation for the carriage of hazardous chemicals and harmful liquids in bulk by sea
CLP Regulation on Classification, Labeling and Packaging; Regulation (EC) No. 1272/2008
MARPOL 73/78 MARPOL 73/78: The International Convention for the Prevention of Pollution from Ships
ADG Australian dangerous goods transport
BLV biological limit value
BOD Biochemical Oxygen Demand (BOD)
COD Chemical oxygen demand (COD)
EC no. European Community number
EC50 Average effective concentration
EN European standard
LC50 Concentration lethal for 50% of a test population
LD50 Lethal dose for 50% of a test population (median lethal dose)
LOAEL Lowest dose with observable adverse effect
NOAEC concentration with no observable adverse effect
NOAEL dose with no observable adverse effect
NOEC Highest concentration tested with no observed adverse effects
OECD Organization for Economic Cooperation and Development
OEL workplace limit value
SDB safety data sheet
STP sewage treatment plant

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Other information

Some of the information in sections 4 to 8 and 10 to 12 does not relate to the use and proper application of the product (see instructions for use/technical information), but to the release of larger quantities in the event of accidents and irregularities. The information describes only the safety requirements of the product(s) and is based on our current state of knowledge. The delivery specifications can be found in the respective product information sheets. However, they do not represent a guarantee of the properties of the described product/products in accordance with the statutory warranty regulations.

Full text of the H and EUH statements

Aquatic Chronic 4 chronic hazard to the aquatic environment, category 4
Carc 1B carcinogenicity, category 1B
H317 may cause an allergic skin reaction
H334 may cause asthma symptoms or breathing difficulties if inhaled
H341 may cause genetic defects
H350 may cause cancer
H360F may damage fertility
H413 may be harmful to aquatic life with long-term effects
Muta2 germ cell mutagenicity, category 2
Repr. 1B reproductive toxicity, category 1B
Resp. Sens.1 respiratory sensitization, category 1
Skin Sens.1 skin sensitization, category 1

Classification and procedures used to create the classification of mixtures in accordance with. Regulation (EC) 1272/2008 [CLP]

Muta2	H341 Calculation methods
Repr. 1B	H360F Calculation methods
Resp. Sens.1	H334 Calculation methods
Skin Sens.1	H317 Calculation methods
Carc.1B	H350 Calculation methods
Aquatic Chronic 4	H413 Calculation methods