

Safety Data Sheet
acc. to OSHA HCS

Printing date 11/22/2015

Reviewed on 11/20/2015

1 Identification

- **Product identifier**
- **Trade name:** PROJECT 70+ CUSTOM 630(17CR-4NI) STAINLE
- **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
101 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

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

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**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
nickel
cobalt
- **Hazard statements**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.

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Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

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

[In case of inadequate ventilation] wear respiratory 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).

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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)**

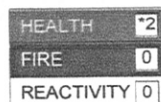


Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 0

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.

· **Dangerous components:**

7440-47-3	chromium	10-<25%
7440-02-0	nickel	2.5-<10%
7440-50-8	copper	2.5-<10%
7440-48-4	cobalt	0.1-<1%

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· *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.

· *Control parameters*

· *Components with limit values that require monitoring at the workplace:*

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

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

7440-50-8 copper

PEL Long-term value: 1* 0.1** mg/m³
as Cu *dusts and mists **fume

REL Long-term value: 1* 0.1** mg/m³
as Cu *dusts and mists **fume

TLV Long-term value: 1* 0.2** mg/m³
*dusts and mists; **fume; as Cu

· *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.

Store protective clothing separately.

· *Breathing equipment:*

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· *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

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- **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.

- **Eye protection:**



Safety glasses

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Solid
Color:	According to product specification

Odor:	Characteristic
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Odor threshold:	Not determined.
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pH-value:	Not applicable.
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- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	2672 °C (4842 °F)

Flash point:	Not applicable.
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Flammability (solid, gaseous):	Not determined.
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- **Ignition temperature:**

Decomposition temperature:	Not determined.
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Auto igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapor pressure:	Not applicable.
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Density at 20 °C (68 °F):	5.29779 g/cm ³ (44.21 lbs/gal)
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Relative density	Not determined.
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Vapor density	Not applicable.
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Evaporation rate	Not applicable.
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- **Solubility in / Miscibility with**

Water:	Insoluble.
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Partition coefficient (n-octanol/water):	Not determined.
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- | | |
|----------------------------|---------------------------------------------------|
| · Viscosity: | |
| <i>Dynamic:</i> | <i>Not applicable.</i> |
| <i>Kinematic:</i> | <i>Not applicable.</i> |
| · Solvent content: | |
| <i>Organic solvents:</i> | 0.0 % |
| <i>VOC content:</i> | 0.0 g/l / 0.00 lb/gl |
| · Solids content: | 99.8 % |
| · Other information | <i>No further relevant information available.</i> |

10 Stability and reactivity

- **Reactivity** *No further relevant information available.*
- **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 inhalation.*
- Sensitization possible through skin contact.*
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:*
- Harmful*
- Irritant*

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

7440-47-3	chromium	3
7440-02-0	nickel	1
7440-48-4	cobalt	2B

- **NTP (National Toxicology Program)**

7440-02-0	nickel	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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.
- **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.

14 Transport information

- | | |
|----------------------------------------------------------------------------------|-----------------|
| · 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
Yes (DOT) |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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UN "Model Regulation": not regulated

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
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- Section 313 (Specific toxic chemical listings):

7440-47-3	chromium
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7440-02-0	nickel
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7440-50-8	copper
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7439-96-5	manganese
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7440-48-4	cobalt
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7429-90-5	aluminium
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7723-14-0	red phosphorus
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- TSCA (Toxic Substances Control Act):

All ingredients are listed.	
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- Proposition 65

- Chemicals known to cause cancer:

7440-02-0	nickel
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7440-48-4	cobalt
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- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.	
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- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.	
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- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.	
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- Carcinogenic categories

- EPA (Environmental Protection Agency)

7440-47-3	chromium	D
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7440-50-8	copper	D
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7439-96-5	manganese	D
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7723-14-0	red phosphorus	D
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- TLV (Threshold Limit Value established by ACGIH)

7440-47-3	chromium	A4
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7440-02-0	nickel	A5
-----------	--------	----

7440-48-4	cobalt	A3
-----------	--------	----

7439-98-7	molybdenum	A3
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7429-90-5	aluminium	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-02-0 nickel

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



GHS08

- **Signal word** Danger

· **Hazard-determining components of labeling:**

nickel
cobalt

· **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 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.
 [In case of inadequate ventilation] wear respiratory 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).
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 Wash contaminated clothing before reuse.
 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 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** 11/22/2015 / 6

· **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
 DOT: US Department of Transportation
 IATA: International Air Transport Association

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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)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Car. 2: Carcinogenicity, Hazard Category 2
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

*** Data compared to the previous version altered.**

US

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Carpenter Technology Corp

PO Box 14662, Reading, PA 19612
101 West Bern Street
READING, PA 19601
USA

Hazard statements:
Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction.

Precautionary statements:
Do not breathe the dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Specific treatment (see on this label). IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

Product contains: nickel, cobalt



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4NI) STAINLE

Warning