



## SDS Service Summary

No.: CANEC2204150403

Date: 08 Apr 2022

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### This SDS is to supersede SDS CANEC2204150401

SGS Job No. : CP22-012068 SZ  
Applicant : GUANGDONG XINFA PRECISION METAL TECHNOLOGY CO.LTD  
Product Name : Stainless Steel (Suitable for SUS301/SUS316L)  
Manufacturer / Supplier : GUANGDONG XINFA PRECISION METAL TECHNOLOGY CO.LTD  
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS  
Job Receiving Date : 15 Mar 2022  
SDS Preparation Period : 15 Mar 2022-18 Mar 2022

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

This SDS updates Product Name.

### Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm guan  
Project Engineer

**Safety data sheet**  
**Regulation (EC) No. 1907/2006 and 1272/2008**

Printing date 08.04.2022

Version number 1

Revision: 16.03.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** *Stainless Steel (Suitable for SUS301/SUS316L)*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** *Electronic and electrical components*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** *GUANGDONG XINFA PRECISION METAL TECHNOLOGY CO.LTD*
- **Full address:**  
*NO.25,FENGCHONG INDUSTRIAL PARK,ZHONGTANG TOWN,DONGGUAN CITY,GUANGDONG PROVINCE*
- **Phone number:** *13726463487*
- **Email:** *249553267@qq.com*
- **Only Representative / other EU contact point:** *Not available*
- **Further information obtainable from:** *GUANGDONG XINFA PRECISION METAL TECHNOLOGY CO.LTD*
- **1.4 Emergency telephone number:**  
*GERMANY*  
*Poison Center Berlin - Institute of Toxicology*  
*Tel: +49 030 192 40*
- **1.5 Reference Number:** *CANEC2204150403,CP22-012068 SZ*
- **1.6 Remark:**  
*This product is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for applicant's reference only.*

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



*GHS08 health hazard*

- Carc. 2 H351 Suspected of causing cancer.*
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.*



*GHS07*

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

- **Information concerning particular hazards for human and environment:**  
*The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.*
- **Classification system:**  
*The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*

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# Safety data sheet

## Regulation (EC) No. 1907/2006 and 1272/2008

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Trade name: Stainless Steel (Suitable for SUS301/SUS316L)

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## · Hazard pictograms



GHS07 GHS08

## · Signal word Warning

## · Hazard-determining components of labelling:

Nickel

## · Hazard statements

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

## · Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

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

## · 2.3 Other hazards:

## · Results of PBT and vPvB assessment

· PBT: Not applicable

· vPvB: Not applicable

### SECTION 3: Composition/information on ingredients

## · 3.2 Mixtures

## · Description:

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to section 16.

## · Composition:

CAS: 7439-89-6 EINECS: 231-096-4	Iron	72.0421%
CAS: 7440-47-3 EINECS: 231-157-5	Chromium substance with a Community workplace exposure limit	18.22%
CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-00-7	Nickel ⚠️ Carc. 2, H351; STOT RE 1, H372; ⚠️ Skin Sens. 1, H317	8.04%
CAS: 7439-96-5 EINECS: 231-105-1	Manganese substance with a Community workplace exposure limit	1.132%
CAS: 7440-21-3 EINECS: 231-130-8	Silicon substance with a Community workplace exposure limit	0.49%
CAS: 7440-44-0 EINECS: 231-153-3	Carbon substance with a Community workplace exposure limit	0.042%
CAS: 7723-14-0 EINECS: 231-768-7 Index number: 015-002-00-7	Red phosphorus ⚠️ Flam. Sol. 1, H228; Aquatic Chronic 3, H412	0.0318%
CAS: 7704-34-9 EINECS: 231-722-6 Index number: 016-094-00-1	Sulfur ⚠️ Skin Irrit. 2, H315	0.0021%

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### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General description:**  
*Immediately remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*
- **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.*
- **4.2 Most important symptoms and effects, both acute and delayed:**  
*No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed:**  
*No further relevant information available.*

### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.*
- **5.2 Special hazards arising from the substance or mixture:**  
*During heating or in case of fire poisonous gases are produced.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures:**  
*Mount respiratory protective device.*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:**  
*Dispose contaminated material as waste according to section 13.  
 Ensure adequate ventilation.*
- **6.4 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.*

### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling:**  
*Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 For the general occupational hygienic measures refer to Section 8.*
- **Information about fire - and explosion protection:** *Keep respiratory protective device available.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*

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- **Further information about storage conditions:** *Keep container tightly sealed.*
- **7.3 Specific end use(s):** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

##### **7440-47-3 Chromium (18.22%)**

IOELV (EU)	Long-term value: 2 mg/m <sup>3</sup> as Cr
WEL (Great Britain)	Long-term value: 0.5 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 2 E mg/m <sup>3</sup> I(I);10, EU
VLEP (France)	Long-term value: 2 mg/m <sup>3</sup> en Cr

##### **7440-02-0 Nickel (8.04%)**

WEL (Great Britain)	Long-term value: 0.5 mg/m <sup>3</sup> as Ni; Sk; Carc
AGW (Germany)	Long-term value: 0.006A; 0.030E* mg/m <sup>3</sup> 8(II);AGS, 24, Sh, Y, 10*, 31*
VLEP (France)	Long-term value: 1 mg/m <sup>3</sup> C2

##### **7439-96-5 Manganese (1.132%)**

IOELV (EU)	Long-term value: 0.2* 0.05** mg/m <sup>3</sup> as Mn; *inhalable, **respirable fraction
WEL (Great Britain)	Long-term value: 0.2* 0.05** mg/m <sup>3</sup> as Mn *inhalable fraction **respirable fraction
AGW (Germany)	Long-term value: 0.02A; 0.2E mg/m <sup>3</sup> 8(II);DFG,Y,10, 20
VLEP (France)	Long-term value: 0.05* 0.20** mg/m <sup>3</sup> *fraction alvéolaire **inhalable; en manganèse

##### **7440-21-3 Silicon (0.49%)**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
VLEP (France)	Long-term value: 10 mg/m <sup>3</sup>

##### **7440-44-0 Carbon (0.042%)**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable
AGW (Germany)	Long-term value: 1.25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**eintembar; AGS, DFG

##### **7723-14-0 Red phosphorus (0.0318%)**

WEL (Great Britain)	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 0.01 E mg/m <sup>3</sup> 2(II);AGS, Y
VLEP (France)	Short-term value: 0.3 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup>

#### · **Regulatory information**

IOELV (EU): (EU) 2019/1831

WEL (Great Britain): EH40/2020

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- AGW (Germany): TRGS 900  
 VLEP (France): ED 1487 12.2019  
 · **DNELs:** Not available  
 · **PNECs:** Not available

· **Ingredients with biological limit values:**

**7439-96-5 Manganese**

BGW (Germany) 20 µg/l

Untersuchungsmaterial: Vollblut

Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende

Parameter: Mangan

- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

· **Appropriate engineering controls:**

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.

See Section 7 for information about design of technical facilities.

· **Personal protective equipment**

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **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.

· **Eye protection:**



Tightly sealed goggles

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

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### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance**

<b>Form:</b>	Solid
<b>Colour:</b>	Silver gray
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not available

· **pH-value:** Not available

· **Change in condition**

<b>Melting point/Freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available

· **Flash point:** Not available

· **Flammability (solid, gas):** Not available

· **Auto-ignition temperature:** Not available

· **Decomposition temperature:** Not available

· **Self-igniting:** Not available

· **Explosive properties:** Not available

· **Explosion limits**

<b>Lower:</b>	Not available
<b>Upper:</b>	Not available

· **Oxidising properties:** Not available

· **Vapour pressure:** Not available

· **Density:** Not available

· **Relative density:** Not available

· **Vapour density:** Not available

· **Evaporation rate:** Not available

· **Solubility in / Miscibility with water:** Not available

· **Partition coefficient: n-octanol/water:** Not available

· **Viscosity**

<b>Dynamic:</b>	Not available
<b>Kinematic:</b>	Not available

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity:** No further relevant information available.

· **10.2 Chemical stability:** No further relevant information available.

· **10.3 Possibility of hazardous reactions:** No dangerous reactions known.

· **10.4 Conditions to avoid:** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

<b>7439-89-6 Iron</b>		
Oral	LD50	30,000 mg/kg (rat)
<b>7439-96-5 Manganese</b>		
Oral	LD50	9,000 mg/kg (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (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.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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### SECTION 14: Transport information

· 14.1 UN-Number	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.2 UN proper shipping name	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, IMDG, IATA	
· Class	Not applicable
· Label	-
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards	
· Marine pollutant:	No
· 14.6 Special precautions for user:	Not applicable
· Hazard identification number (Kemler code):	-
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· UN "Model Regulation":	Not applicable

### SECTION 15: Regulatory information

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

· MAK(German Maximum Workplace Concentration)

7440-02-0 Nickel

I

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category Not applicable

· Qualifying quantity (tonnes) for the application of lower-tier requirements Not applicable

· Qualifying quantity (tonnes) for the application of upper-tier requirements Not applicable

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· National regulations:

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

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/1/2022)

None of the ingredients is listed

· REACH Regulation Annex XVII Restriction (13/12/2021)

See Section 16 for information about restriction of use.

None of the ingredients is listed

· REACH Regulation Annex XIV Authorisation List (23/11/2021)

None of the ingredients is listed

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

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### SECTION 16: Other information

· **Relevant hazard statements**

H228 Flammable solid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No. 1272/2008**

Skin sensitisation

Carcinogenicity

Specific target organ toxicity (repeated exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.

· \*\*\*\*\*  
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Sol. 1: Flammable solids – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

· \*\*\*\*\*  
End of document