

# Safety Data Sheet

Prepared July 5, 2012  
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## 1. Identification

Product name : SUS304

Company : Tokushu Kinzoku Excel Co., Ltd.  
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Reference : JIS Z 7253 : 2019  
NITE Chemical Risk Information Platform (NITE-CHRIP)

## 2. Hazard identification

GHS classification

Physical hazards

|  |                               |
|--|-------------------------------|
| Explosives   | : No classification           |
| Flammable gases  | : No classification           |
| Aerosols   | : No classification           |
| Oxidizing gases  | : No classification           |
| Gases under pressure   | : No classification           |
| Flammable liquids  | : No classification           |
| Flammable solids   | : No classification           |
| Self-reactive substances and mixtures                                      | : No classification           |
| Phyrophoric liquids  | : No classification           |
| Phyrophoric solids   | : Classification not possible |
| Self-heating substances and mixtures                                       | : No classification           |
| Substances and mixtures which, in contact with water, emit flammable gases | : Classification not possible |
| Oxidizing liquids  | : No classification           |
| Oxidizing solids   | : No classification           |
| Organic peroxides  | : No classification           |
| Corrosive to metals  | : Classification not possible |
| Desensitized explosives  | : No classification           |

Health hazards

|                                  |                               |
|----------------------------------|-------------------------------|
| Acute toxicity – Oral            | : No classification           |
| Acute toxicity – Dermal          | : No classification           |
| Acute toxicity – Gases           | : No classification           |
| Acute toxicity – Vapours         | : Classification not possible |
| Acute toxicity – Dusts and Mists | : Category 2                  |
| Skin corrosion/irritation        | : No classification           |
| Serious eye damage/irritation    | : Category 2/2A               |
| Respiratory sensitization        | : Category 1                  |
| Skin sensitization               | : Category 1                  |
| Germ cell mutagenicity           | : Classification not possible |
| Carcinogenicity                  | : Category 2                  |
| Reproductive toxicity            | : Category 1                  |

|   |   |
|---|---|
| Specific target organ toxicity – Single exposure                  | : Category 1 (respiratory system, kidney, digestive system)<br>Category 3 (respiratory tract irritation)        |
| Specific target organ toxicity – Repeated exposure                | : Category 1 (respiratory system, nerve system, blood system, heart, thyroid gland, organs of generation (man)) |
| Aspiration hazard   | : Classification not possible   |
| Environmental hazards   |   |
| Hazardous to the aquatic environment – Short-term (acute) hazard  | : No classification   |
| Hazardous to the aquatic environment – Long-term (chronic) hazard | : No classification   |
| Hazardous to the ozone layer                                      | : Classification not possible   |

## Label elements

## Symbol



## Single word

Danger

## Hazard statement

- H330 Fatal if inhaled
- H319 Causes serious eye irritation
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317 May cause an allergic skin reaction
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child
- H370 Causes damage to organs <respiratory system, kidney, digestive system>
- H335 May cause respiratory irritation
- H372 Causes damage to organs <respiratory system, nerve system, blood system, heart, thyroid gland, organs of generation (man)> through prolonged or repeated exposure

## Precautionary statements

## Prevention

- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 In case of inadequate ventilation, wear respiratory protection.

## Response

- P314 Get medical advice/attention if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P310 IF INHALED: Immediately call a POISON CENTER/doctor.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

- P405 Store locked up.

**Disposal**

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

**3. Composition/information on ingredients**

Chemical identity of the substance : Mixture (Alloy)

Common names, synonym of the substance: Cold-rolled stainless steel strip

Identification number and concentration of all hazardous ingredients

| Chemical name | Formula | Percent (%) | CAS No.   |
|---------------|---------|-------------|-----------|
| Iron          | Fe      | Balance     | 7439-89-6 |
| Chromium      | Cr      | 18 - 20     | 7440-47-3 |
| Nickel        | Ni      | 8 - 10.5    | 7440-02-0 |
| Manganese     | Mn      | ≦2          | 7439-96-5 |
| Silicon       | Si      | ≦1          | 7440-21-3 |
| Cobalt        | Co      | ≦1          | 7440-48-4 |
| Copper        | Cu      | ≦1          | 7440-50-8 |

\*The component may include 0.1% or less of trace elements.

**4. First-aid measures**

- Inhalation : Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- Skin contact : Wash with plenty of soap and water.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.
- Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.
- Swallowing : Rinse mouth. Immediately consult a doctor.

**5. Fire-fighting measures**

- Suitable extinguishing media : Foam fire extinguisher, sand  
Unsuitable extinguishing media : CO<sub>2</sub>, water spray

**6. Accidental release measures**

It is the solid with the shape, and there is not the applicable matter.

**7. Handling and storage**

- Handling : Be careful with falling accident. Wear safeguard tools to be not injured by sharp edge.
- Storage : Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**8. Exposure controls/personal protection**

Control concentration :

| Name                         | ACGIH                   | Japan Society for Occupational Health |
|------------------------------|-------------------------|---------------------------------------|
|                              | TWA(mg/m <sup>3</sup> ) | AEL(mg/m <sup>3</sup> )               |
| Chromium                     | 0.5                     | 0.5                                   |
| Nickel                       | 1.5(I)                  | 1                                     |
| Manganese                    | 0.02(R)/0.1(I)          | 0.2                                   |
| Cobalt                       | 0.02                    | 0.05                                  |
| Copper(Dusts and mists/Fume) | 1/0.2                   | -                                     |

Remarks

Reference: NITE Chemical Risk Information Platform (NITE-CHRIP)

(R): Respirable fraction

(I): Inhalable fraction

Protective equipment

Respiratory protection : If powder occurs: local exhaust or breathing protection

Hand protection : If the fingers may be damaged: protective gloves

Eye protection : If powder occurs: safety goggles

Skin protection : If heavy goods are handled: protective cloth

**9. Physical and chemical properties**

Physical state : Tabular solid

Colour : Silver

Odour : Odorless

Density : 7.93 g/cm<sup>3</sup>

Other physical and chemical properties

: No data

**10. Stability and reactivity**

Reactivity : Generally this product is considering a stable material.

Chemical stability : Generally this product is considering a stable material.

Possibility of hazardous reactions

: Hydrogen is produced in response to acid.

Conditions to avoid : Contact with the acid

Incompatible materials : Potassium permanganate, chlorate, acid

Hazardous decomposition products

: Hydrogen

**11. Toxicological information**

| Name              | Cr                          | Ni                          | Mn                          | Co                          |
|-------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Acute toxicity    |                             |                             |                             |                             |
| - Oral            | Classification not possible | Not classified              | Not classified              | Category 4                  |
| - Dermal          | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| - Gases           | Not applicable              | Not applicable              | Not applicable              | Not classified              |
| - Vapours         | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| - Dusts and Mists | Classification not possible | Classification not possible | Classification not possible | Category 1                  |

|                               |   |   |   |   |
|-------------------------------|---|---|---|---|
| Skin corrosion/irritation     | Classification not possible               | Classification not possible             | Category 3                                    | Not classified  |
| Serious eye damage/irritation | Category 2                                | Classification not possible             | Category 2B                                   | Category 2B   |
| Respiratory sensitization     | Category 1A                               | Category 1                              | Classification not possible                   | Category 1A   |
| Skin sensitization            | Category 1A                               | Category 1                              | Classification not possible                   | Category 1A   |
| Germ cell mutagenicity        | Classification not possible               | Classification not possible             | Classification not possible                   | Classification not possible   |
| Carcinogenicity               | Classification not possible               | Category 2                              | Not classified                                | Category 2  |
| Reproductive toxicity         | Classification not possible               | Classification not possible             | Category 1B                                   | Category 1B   |
| STOT – Single exposure        | Category 3 (respiratory tract irritation) | Category 1 (respiratory system, kidney) | Category 1 (respiratory system)               | Category 1 (respiratory system)   |
| STOT – Repeated exposure      | Classification not possible               | Category 1 (respiratory system)         | Category 1 (nerve system, respiratory system) | Category 1 (respiratory system, heart, thyroid gland, blood system, organs of generation (man)) |
| Aspiration hazard             | Classification not possible               | Classification not possible             | Classification not possible                   | Classification not possible   |

| Name                          | Cu                          |
|-------------------------------|-----------------------------|
| Acute toxicity                |                             |
| – Oral                        | Classification not possible |
| – Dermal                      | Classification not possible |
| – Gases                       | Not applicable              |
| – Vapours                     | Not applicable              |
| – Dusts and Mists             | Classification not possible |
| Skin corrosion/irritation     | Classification not possible |
| Serious eye damage/irritation | Classification not possible |
| Respiratory sensitization     | Classification not possible |
| Skin sensitization            | Category 1A                 |
| Germ cell mutagenicity        | Classification not possible |
| Carcinogenicity               | Classification not possible |
| Reproductive toxicity         | Classification not possible |

|                          |   |
|--------------------------|---|
| STOT – Single exposure   | Category 1<br>(digestive system),<br>Category 3<br>(respiratory tract irritation) |
| STOT – Repeated exposure | Classification not possible   |
| Aspiration hazard        | Classification not possible   |

Reference: NITE Chemical Risk Information Platform (NITE-CHRIP)

## 12. Ecological information

Hazardous to the aquatic environment\_acute hazard  
: No classification  
Hazardous to the aquatic environment\_long-term hazard  
: No classification  
Hazardous to the ozone layer  
: No data  
Other ecological information  
: No data

## 13. Disposal considerations

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

## 14. Transport information

UN No : Not applicable  
Domestic restriction  
Fire Service Act : Not applicable  
Ship Safety Act : Not applicable  
Civil Aeronautics Act : Not applicable  
International restriction  
IMO information : Not applicable  
IATA/ICAO information : Not applicable

## 15. Regulatory information

Industrial Safety and Health Act  
Chromium and its compounds : 142  
Nickel and its compounds : 418  
Manganese and its compounds : 550  
Cobalt and its compounds : 172  
Copper and its compounds : 379  
PRTR  
Chromium or trivalent chromium : 1-087 (Control number after 2023: 87)  
Nickel : 1-308 (Control number after 2023: 308)  
Manganese and its compounds : 1-412 (Control number after 2023: 412)  
Cobalt and its compounds : 1-132 (Control number after 2023: 132)

**16. Other information**

The Safety Data Sheet (SDS) is designed to provide forwarding and handling agents with reference information on the safe handling of dangerous and hazardous chemical materials.

In making use of this safety data sheet, forwarding and handling agents are requested to understand on their own responsibility the necessity of taking appropriate measures compatible with the individual forwarding and handling operations.

This safety data sheet should not therefore be regarded as a guarantee of safety.

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