

# Safety Data Sheet

Prepared July 5, 2012  
Revised March 25, 2026

## 1. Identification

Product name : SUS316

Company : Tokushu Kinzoku Excel Co., Ltd.  
 Address : 56 Tamagawa Tokigawa-machi Hiki-gun Saitama, Japan  
 Contact department : ISO Secretariat  
 Tell : +81-493-65-3577  
 Fax : +81-493-65-4479  
 Emergency phone number : Same as above  
 Recommended use : Various precision equipment, industrial equipment, industrial blades/tools, etc.  
 Restrictions on use : Seek the judgment of a specialist, such as a chemical substance manager, if there is a possibility that dust may be generated by processing, or similar operations.  
 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 1
Reproductive toxicity	: Category 1
Specific target organ toxicity – Single exposure	: Category 1 (respiratory system, kidney) 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
- H360 May damage fertility or the unborn child
- H370 Causes damage to organs <respiratory system, kidney>
- 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	16 - 18	7440-47-3
Nickel	Ni	10 - 14	7440-02-0
Molybdenum	Mo	2 - 3	7439-98-7
Manganese	Mn	≤2	7439-96-5
Silicon	Si	≤1	7440-21-3
Cobalt	Co	≤1	7440-48-4

\*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
Molybdenum	3(R)/10(I)	-
Manganese	0.02(R)/0.1(I)	0.2
Cobalt	0.02	0.05

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 : 7.98 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	Chromium	Nickel	Molybdenum	Manganese
Acute toxicity				
- Oral	Classification not possible	Not classified	Classification not possible	Not classified
- Dermal	Classification not possible	Classification not possible	Classification not possible	Classification not possible
- Gases	Not applicable	Not applicable	Not applicable	Not applicable
- Vapours	Classification not possible	Classification not possible	Not applicable	Classification not possible
- Dusts and Mists	Classification not possible	Classification not possible	Classification not possible	Not classified
Skin corrosion/irritation	Classification not possible	Classification not possible	Category 2	Not classified
Serious eye damage/irritation	Category 2	Classification not possible	Category 2	Not classified
Respiratory sensitization	Category 1A	Category 1	Classification not possible	Classification not possible
Skin sensitization	Category 1A	Category 1	Classification not possible	Not classified
Germ cell mutagenicity	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Carcinogenicity	Classification not possible	Category 2	Classification not possible	Classification not possible
Reproductive toxicity	Classification not possible	Classification not possible	Classification not possible	Category 1B
STOT – Single exposure	Category 3 (respiratory tract irritation)	Category 1 (respiratory system, kidney)	Category 3 (respiratory tract irritation)	Classification not possible
STOT – Repeated exposure	Classification not possible	Category 1 (respiratory system)	Classification not possible	Category 1 (nerve system, respiratory system)
Aspiration hazard	Classification not possible	Classification not possible	Classification not possible	Classification not possible

Name	Cobalt
Acute toxicity	
- Oral	Category 4
- Dermal	Classification not possible
- Gases	Not classified
- Vapours	Classification not possible
- Dusts and Mists	Category 1
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Category 2B
Respiratory sensitization	Category 1A
Skin sensitization	Category 1A
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
STOT – Single exposure	Category 1 (respiratory system)
STOT – Repeated exposure	Category 1 (respiratory system, heart, thyroid gland, blood system, organs of generation (man))
Aspiration hazard	Classification not possible

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

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## 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

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## 13. Disposal considerations

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

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**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**

Regulation (Japan)	Iron	Chromium	Nickel
Industrial Safety and Health Act	-	Appendix No. 9-11 of the Cabinet Order	Appendix No. 9-24 of the Cabinet Order
PRTR Law (Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement)	-	Control No. 87	Control No. 308
Poisonous and Deleterious Substances Control Act	-	-	-
Air Pollution Control Act	-	Cabinet Order: Central Environment Council 9th Report (Table 1), No. 49	Cabinet Order: Central Environment Council 9th Report (Table 1), No. 148
Water Pollution Control Act	Cabinet Order: Article 3-3, Item 52	Cabinet Order: Article 3-3, Item 50	Cabinet Order: Article 3-3, Item 45
Soil Contamination Countermeasures Act	-	-	-
Fire Service Act	Iron powder : Class 2 - Flammable Solid	-	-

Regulation (Japan)	Molybdenum	Manganese	Cobalt
Industrial Safety and Health Act	Appendix No. 9-31 of the Cabinet Order	Appendix No. 9-30 of the Cabinet Order	Appendix No. 9-12 of the Cabinet Order
PRTR Law (Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement)	Control No. 453	Control No. 412	Control No. 132
Poisonous and Deleterious Substances Control Act	-	-	-
Air Pollution Control Act	Cabinet Order: Central Environment Council 9th Report (Table 1), No. 243	Cabinet Order: Central Environment Council 9th Report (Table 1), No. 225	Cabinet Order: Central Environment Council 9th Report (Table 1), No. 60
Water Pollution Control Act	Cabinet Order: Article 3-3, Item 46	Cabinet Order: Article 3-3, Item 51	-
Soil Contamination Countermeasures Act	-	-	-
Fire Service Act	Metal powder : Class 2 - Flammable Solid	-	Metal powder : Class 2 - Flammable Solid

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

## 16. Other information

The purpose of this Safety Data Sheet (SDS) is to provide information for safe handling. No warranties are made as to physical properties, hazard information, or any other information.

This Safety Data Sheet (SDS) is based on materials, information, and data available at the time of preparation. Its contents are not guaranteed for the future. All products have the potential for unknown hazards and should be handled with care.

For special handling or use, such as in combination with other chemicals, implement precautions appropriate to the conditions of use.

This Safety Data Sheet (SDS) has been prepared in accordance with the laws and regulations of Japan. When using the product outside of Japan, please confirm the laws and regulations to be observed with the appropriate authorities or business operators in the country or region where the product will be used.