Safety Data Sheet

Prepared July 5, 2012
Revised December 1, 2015

1. Company identification and Product name

Product name : SUS304

Company	:	Tokushu Kinzoku Excel Co., Ltd.
Address	:	56 Tamagawa Tokigawa-machi Hiki-gun Saitama, Japan
Contact department	:	Quality Assurance Group
Tell	:	0493-65-3577
Fax	:	0493-65-4479

2. Hazards identification

GHS classification

Physical hazards

Explosives	:	Not applicable
Flammable gases	:	Not applicable
Aerosols	:	Not applicable
Oxidizing gases	:	Not applicable
Gases under pressure	:	Not applicable
Flammable liquids	:	Not applicable
Flammable solids	:	Not classified
Self-reactive substances and mixtures	:	Not applicable
Phyrophoric liquids	:	Not applicable
Phyrophoric solids	:	Classification not possible
Self-heating substances and mixtures	:	Not classified
Substances and mixtures which, in contact with water, emit flammable gases	:	Classification not possible
Oxidizing liquids	:	Not applicable
Oxidizing solids	:	Not applicable
Organic peroxides	:	Not applicable
Corrosive to metal	:	Classification not possible

Health hazard

Acute toxicity_oral	:	Classification not possible
Acute toxicity_dermal	:	Classification not possible
Acute toxicity_inhalation_gases	:	Not applicable
Acute toxicity_inhalation_vapor	:	Classification not possible
Acute toxicity_inhalation_dust	:	Classification not possible
Acute toxicity_inhalation_mist	:	Not applicable
Skin corrosion / Irritation	:	Not classified
Eye damage / Irritation	:	Category 2B
Sensitization_Respiratory	:	Category 1
Sensitization_Skin	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Toxic to reproduction	:	Category 1B
Specific target organ toxicity (single exposure)	:	Category 1 (respiratory apparatus, kidney) Category 2 (systemic toxicity) Category 3 (respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

: Category 1 (nerve system, respiratory apparatus)

Aspiration hazard : Classification not possible

Environmental hazards

Hazardous to the aquatic environment_acute hazard

: Classification not possible

Hazardous to the aquatic environment_long-term hazard

: Not classified

Hazardous to the ozone layer : Classification not possible

Label elements

Symbol

Single word

Danger

Hazard statement

- Causes serious eye damage
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- May cause an allergic skin reaction
- Suspected of causing genetic defects
- Suspected of causing cancer
- May damage fertility or the unborn child
- Causes damage to organs < respiratory apparatus, kidney >
- May cause damage to organs < systemic toxicity >
- May cause respiratory irritation
- Causes damage to organs < nerve system, respiratory apparatus > through prolonged or repeated exposure

Precautionary statements

Prevention

- Do not breathe dust/fume/gas/mist/vapours/spray.
- In case of inadequate ventilation wear respiratory protection.
- Wear respiratory protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.

Response

- IF IN EYES: 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.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash contaminated clothing before reuse.
- IF exposed or concerned: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

- Store locked up.

Disposal

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

regulations (to be specified)

3. Ingredient composition

Classification of substance or mixture: Mixture (Alloy)

Component

Chemical name	Formula	Percent (%)	CAS No.
Iron	Fe	Balance	7439-89-6
Chromium	Cr	18.0 - 20.0	7440-47-3
Nickel	Ni	8.0 - 10.5	7440-02-0
Manganese	Mn	≦2.0	7439-96-5
Cobalt	Co	≦1.0	7440-48-4
Silicon	Si	≦1.0	7440-21-3
Copper	Cu	≦0.5	7440-50-8

4. First aid measure

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Swallowing : Rinse mouth. Immediately consult a doctor.

5. Fire fighting measures

Suitable extinguishing media : foam fire extinguisher, sand

Unsuitable extinguishing media : CO2, 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 and personal protection

Control concentration :

Name	TWA(mg/m^3)	STEL(mg/m^3)
Metal and Cr III compounds	0.5	-
Insoluble Cr VI compounds	0.01	-
Nickel, as Ni Elemental	1.5	-
Manganese and inorganic compounds, as Mn	0.2	-
Cobalt and inorganic compounds, as Co	0.02	-
Copper(Dusts and mists, as Cu)	1	-
Copper(Fume)	0.2	-

Protective equipment

Respiratory protection : Local exhaust or breathing protection

Hand protection : Protective gloves

Eye protection : Safety goggles

Skin protection : Protective gloves

9. Physicochemical properties

Physical properties

Form	:	tabular solid
Color	:	Silver
Odor	:	odorless
Specific gravity	:	7.93 g/cm3
Melting point	:	More than 1,250 degrees Celsius

10. Stability and reactivity

Stability : Generally this product is considering a stable material.

Reactivity : A metal compound is formed at the time of processing in such cases as heating, the dissolution, malting and grinding. Hydrogen occurrence is sometimes entailed by contact of acids and alkalis.

11. Health hazard information

Acute toxicity_oral	:	No data
Acute toxicity_dermal	:	No data
Acute toxicity_inhalation_gases	:	Not applicable
Acute toxicity_inhalation_vapor	:	No data
Acute toxicity_inhalation_dust	:	No data
Acute toxicity_inhalation_mist	:	Not applicable
Skin corrosion / Irritation	:	Not classified
Eye damage / Irritation	:	Causes eye irritation (Category 2B)
Sensitization_Respiratory	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled (Category 1)
Sensitization_Skin	:	May cause an allergic skin reaction (Category 1)
Germ cell mutagenicity	:	Suspected of causing genetic defects (Category 2)
Carcinogenicity	:	Suspected of causing cancer (Category 2)
Toxic to reproduction	:	May damage fertility or the unborn child (Category 1B)
Specific target organ toxicity (single exposure)	:	Causes damage to organs (respiratory apparatus, kidney) (Category 1) May cause damage to organs (systemic toxicity) (Category 2) May cause respiratory irritation (Category 3)
Specific target organ toxicity (repeated exposure)	:	Causes damage to organs (nerve system, respiratory apparatus) (Category 1)
Aspiration hazard	:	No data

12. Environmental impact information

Hazardous to the aquatic environment_acute hazard	:	No data
Hazardous to the aquatic environment_long-term hazard	:	Not classified
Hazardous to the ozone layer	:	No data

13. disposal information

Dispose of contents / container in accordance with local / regional / national / international / regulations (to be specified)

14. Transport information

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

15. Regulation

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
Nickel	:	1-308
Manganese and its compounds	:	1-412
Cobalt and its compounds	:	1-132

16. Others

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.