



Doc. Title	SAFETY DATA SHEET	Ver. 3	In accordance with ANSI Z400.1-2004	Page 1 of 4
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Safety data for stainless steel

[Glossary](#) of terms on this data sheet.

The information on this page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Safety Data Sheet (SDS). SDS forms can be downloaded from the web sites of many chemical suppliers.

1.PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: YC INOX CO., LTD.

EMERGENCY PHONE: 886-4-8899666

ADDRESS: No.270, Sec.4, Jungshan Rd., Shijou Shiang, Chang-Hwa, Taiwan

Website: www.ycinox.com

E-mail: yc@ycinox.com

REVISION DATE: Apr. 22, 2016

SDS NUMBER: SDS001-S

PRODUCT NAME: STAINLESS STEEL (ALL GRADES)

TRADE NAMES:

ANSI 304/304L stainless steel coil, sheet, plate, tube, pipe

ANSI 316/316L stainless steel coil, sheet, plate, tube, pipe

ANSI 430 stainless steel coil, sheet, plate, tube, pipe

Synonyms: Stainless

PRODUCT USE:

- I. Stainless steel tubing for general corrosion-resisting and low- or high-temperature service, boiler, superheater, heat exchanger, condenser tubes, dairy and food industry, and mechanical applications.
- II. Stainless steel piping intended for low- or high-temperature and general corrosive service.
- III. Stainless steel plate, sheet, and strip for pressure vessels and for general applications.

2.HAZARDS IDENTIFICATION:

Non-hazardous for GHS



Doc. Title	SAFETY DATA SHEET	Ver. 3	In accordance with ANSI Z400.1-2004	Page 2 of 4
------------	-------------------	--------	-------------------------------------	-------------

3. COMPOSITION/INFORMATION ON INGREDIENTS:

ELEMENT	CAS No.	PERCENTAGE	ACGIH-TLV (mg/m ³)	OSHA-PEL (mg/m ³)
IRON (Fe)	7439-89-6	balance	5/ Oxide Dust	10/ Oxide Dust
Carbon (C)	7440-44-0	0.12% (max.)	N/A	N/A
Manganese (Mn)	7439-96-5	2.00% (max.)	0.2/ Elemental Mn	5 /Fume
Phosphorus (P)	7723-14-0	0.045% (max.)	0.1/ Phosphorus	0.1/ Phosphorus
Sulfur (S)	7446-09-5	0.030% (max.)	5.2 /Sulfur Dioxide 13 /Sulfur Dioxide(STEL)	13 /Sulfur Dioxide
Silicon (Si)	7440-21-3	1.00% (max.)	10 /Dust	15 /Dust
Chromium (Cr)	7440-47-3	10%~20%	0.5 /Metal	1 /Metal
Nickel (Ni)	7440-02-0	0%~20%	1.5 /Metal	1 /Metal and Insoluble Compounds
Molybdenum (Mo)	7439-98-7	0%~3.0%	10 /Insoluble Compounds	15 /Insoluble Compounds

ACGIH: American Conference of Industrial Hygienists

OSHA: Occupational Safety & Health Administration

STEL: Short Term Exposure Limit

NOTE: No Permissible Exposure Limit (PEL) or Threshold Limit Values (TLV) exist for steel. The above listing is a summary of elements used in stainless steel products.

4. FIRST AID MEASURES

Skin contact: Harmless on skin. If cut, must be got medical attention.

5. FIRE-FIGHTING MEASURES

Non-specific

6. ACCIDENTAL RELEASE MEASURES

None

7. DISPOSAL AND STORAGE

No special disposal method and storage environment requirement

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Control: No requirement

Personal Protective Equipment

Hand ware: common gloves



Doc. Title	SAFETY DATA SHEET	Ver. 3	In accordance with ANSI Z400.1-2004	Page 3 of 4
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical data

Appearance and Odor: Grey-silver metallic solid; odorless

Boiling Point: Not applicable

Melting Point: Approximately 1400°C~1510°C (2552°F~2750°F)

Auto-ignition Temperature: Not applicable

pH: Not applicable

Specific Gravity or Density: Not applicable

% Volatile, by Volume: Not applicable

Solubility in Water: Insoluble

Other Physical and Chemical Data: None

Vapour density: N/A

Vapour pressure: N/A

Specific gravity: Typically 7.70~7.96

Flash point: None

Explosion limits: None

Autoignition temperature: None

10. STABILITY AND REACTIVITY

Stability: Stable and indecomposable

Improper maneuver would cause bodily harm

11. TOXICOLOGICAL INFORMATION

Non-toxic.

12. ECOLOGICAL INFORMATION

Suspicious ecological effects:

1. Non-accumulation
2. Non-environmental degradation

13. DISPOSAL CONSIDERATIONS

Waste Disposal

1. Follow current regulation on waste disposal



Doc. Title	SAFETY DATA SHEET	Ver. 3	In accordance with ANSI Z400.1-2004	Page 4 of 4
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14. TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight.

15. REGULATORY INFORMATION

None

16. OTHER INFORMATION

Special precautions should be taken when handling, cutting, welding, burning, and other operations that may result fumes or dusts. When welding or burning, arc or spark could be a source of ignition.