

# **Safety Data Sheet**

## **According to Regulation (EC) No 1907/2006**

STAINLESS STEEL BRUSH

Version 1.0

Issue date: 31/10/2016

Revision date: 31/10/2016

SDS Record Number: CSSS-TCO-010-121678

### **Section 1 Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product identifier:**

Identification on the label/Trade name: STAINLESS STEEL BRUSH

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

#### **1.2 Relevant identified uses of the substance and uses advised against:**

##### **1.2.1 Identified uses:**

Cleaning.

##### **1.2.2 Uses advised against:**

Not available.

#### **1.3 Details of the supplier of the safety data sheet:**

Supplier(Only representative): -

Supplier(Manufacturer): NINGBO NISTEN ENTERPRISE CO.,LTD

Address: NO.10, KEJIU ROAD KEJI INDUSTRIAL ESTATE NINGHAI NINGBO CHINA  
315600

Contact person(E-mail): Shelly

Telephone: 0086-574-65551008

Fax: 0086-574-65551009

#### **1.4 Emergency telephone Number:**

0086-574-65551008

Available outside office hours?

YES

NO

### **Section 2 Hazards Identification**

#### **2.1 Classification of the substance/mixture:**

##### **2.1.1 Classification:**

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

<b>REGULATION (EC) No 1272/2008</b>	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

For full text of H- phrases: see section 2.2.

#### **2.2 label elements:**

**Hazard Pictograms:** No hazard pictogram is used.

**Signal Word(S):** No signal word is used.

**Hazard Statement:** Not applicable.

**Precautionary statement:** Not applicable.

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## 2.3 Other hazards:

Not available.

## Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Iron	N/A	7439-89-6	231-096-4	67.115%	Not Classified
Carbon	N/A	7440-44-0	231-153-3	0.08%	Not Classified
Manganese	N/A	7439-96-5	231-105-1	9%	Not Classified
Silicon	N/A	7440-21-3	231-130-8	0.75%	Not Classified
Phosphorus	N/A	723-14-0	231-768-7	0.045%	H228 H412
Sulfur	N/A	7704-34-9	231-722-6	0.01%	H315
Chromium	N/A	7440-47-3	231-157-5	17%	Not Classified
Nickel	N/A	7440-02-0	231-111-4	4.5%	H317 H351 H372
Copper	N/A	7440-50-8	231-159-6	1.5%	Not Classified

## Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Remove from dusty area to fresh air. If discomfort persists, consult physician.

#### 4.1.2 In case of skin contact:

If irritation develops, wash skin thoroughly with soap and water. Seek medical attention if necessary.

#### 4.1.3 In case of eyes contact:

Wash with copious amounts of water for 15 minutes to ensure that no articles remain in the eye. Seek medical advice if irritation persists.

#### 4.1.4 In case of ingestion:

If significant amounts of dust are ingested consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

### 4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

## Section 5 Fire-Fighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Use extinguishers appropriate for surrounding materials.

**Unsuitable extinguishing media:** Not available.

**5.2 Special hazards arising from the substance or mixture** Toxic metal and metallic oxide fumes may be evolved from fires involving finely divided alloy.

**5.3 Advice for firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## Section 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

**6.1.1 For non-emergency personnel:** Not applicable to stainless steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean -up personnel should be protected against inhalation and eye and skin contact. For personal protection see section 8.

**6.1.2 For emergency responders:** Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

**6.2 Environmental Precautions:** Avoid disposing into drainage/sewer system or directly into the aquatic environment. Keeping away from drains, surface-and ground-water and soil.

**6.3 Methods for Containment and Cleaning up:** Not applicable to stainless steel in solid state, For spills involving fine dusts, remove by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid inhalation of dusts.

**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 information on disposal.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

**7.1.1 Protective measures:** Not applicable to stainless steel in solid state. Operations with the potential for generating high concentrations of airborne particles should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust. For precautions see section 2.

**7.1.2 Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool, dry area.

**7.3 Specific end use(s):** Not applicable.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

Substance	EINECS No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
			ppm	mg/ m3	ppm	mg/ m3	Notes
Graphite	231-153-3	7440-44-0	-	10	-	-	-
total inhalable dust			-	4	-	-	-
respirable dust							
Manganese and	231-105-1	7439-96-5		0.2	-	-	-

compounds (as Mn)							
Chromium metal	231-157-5	7440-47-3	-	0.5			IOELV
Tin compounds, inorganic, except SnH <sub>4</sub> , (as Sn)	231-141-8	7440-31-5 & others	-	2	-	4	-
Silicon Si total inhalable dust respirable dust	231-130-8	7440-21-3		10 4	- -	- -	- -
Phosphorus, yellow	231-768-7	723-14-0	-	0.1	-	0.3	1
Chromium metal		7440-47-3	-	0.2	-	0.6	Sk
Copper (as Cu) Fume dusts and mists (as Cu)	231-159-6	7440-50-8		0.2 1	- -	- 2	-
Nickel	231-111-4	7440-02-0		0.5	-	-	-

**8.1.2 Additional exposure limits under the conditions of use:** Not available.

**8.1.3 DNEL/DMEL and PNEC-Values:** Not available.

## 8.2 Exposure controls:

**8.2.1 Appropriate engineering controls:** Use adequate ventilation to keep airborne concentrations low.

**8.2.2 Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Safety glasses or goggles should be worn when there is probability of flying particles or elevated levels of dust or fume.

**Hand protection:** Suitable for protection against physical injury and skin contact during handling and processing.

**Body protection:** Suitable for protection against physical injury and skin contact during handling and processing.

**Respiratory protection:** If concentrations exceed established limits use NIOSH/MSHA approved particulate respirators (dust & fume or high efficiency dust and fume) when grinding or welding.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

**8.2.3 Environmental exposure controls:** Avoid discharge into the environment.  
According to local regulations, Federal and official regulations.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Solid
<b>Colour:</b>	Not available
<b>Odour:</b>	Not available
<b>Odour threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Melting point/range (°C):</b>	Not available
<b>Boiling point/range (°C):</b>	Not available
<b>Flash point (°C):</b>	Not applicable
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Non flammable
<b>Ignition temperature (°C):</b>	Not available

<b>Upper/lower flammability/explosive limits:</b>	Not available
<b>Vapour pressure (20°C):</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative Density:</b>	Not available
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available
<b>Water solubility (g/l):</b>	Not available
<b>n-Octanol/Water (log Po/w):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic (mPa.s):</b>	Not available
<b>Explosive properties:</b>	Non explosive
<b>Oxidising properties:</b>	Not available
<b>Molecular Formula:</b>	Not applicable
<b>Molecular Weight:</b>	Not applicable

## 9.2. Other information:

<b>Fat solubility(solvent– oil to be specified) etc:</b>	Not available
<b>Surface tension:</b>	Not available
<b>Dissociation constant in water( pKa):</b>	Not available
<b>Oxidation-reduction Potential:</b>	Not available
<b>Specific gravity:</b>	Not available

## Section 10 Stability and reactivity

<b>10.1 Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>10.2 Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>10.4 Conditions to avoid:</b>	Contact with mineral acids will release flammable hydrogen gas. Oxidizers, Reacts with strong acids to form explosive hydrogen gas.
<b>10.5 Incompatible materials:</b>	Acids and alkalis.
<b>10.6 Hazardous decomposition products:</b>	During certain operations such as welding, burning, melting or hot rolling, metal fumes may be generated.

## Section 11 Toxicological information

<b>11.1 Information on toxicological effects:</b>	
<b>Acute toxicity:</b>	
Nickel(CAS# 7440-02-0)	
<b>LD50(Oral, Rat):</b>	> 9000 mg/kg bw
<b>LD50(Dermal, Rabbit):</b>	Not available
<b>LC50(Inhalation, Rat):</b>	Not available
<b>Skin corrosion/Irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	Not classified
<b>Respiratory or skin sensitization:</b>	Not classified
<b>Germ cell mutagenicity:</b>	Not classified
<b>Carcinogenicity:</b>	Not classified

Reproductive toxicity: Not classified  
 STOT- single exposure: Not classified  
 STOT-repeated exposure: Not classified  
 Aspiration hazard: Not classified

## Section 12 Ecological information

### 12.1 Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT&vPvB assessment: Not available.

12.6 Other adverse effects: Not available.

## Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

## Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated

## Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES

NO

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

### 16.2 Training instructions:

Not applicable.

### 16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### 16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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