



# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

**MATERION**

Product name: Stainless Steel Products

Issue date: 03-13-2019

Version #: 01

SDS No: 230

## SECTION 1 Chemical product and company identification

Chinese name of chemical	不锈钢	
English name of chemical	Stainless Steel Products	
Manufacturer/Supplier	Materion Advanced Materials Group	
Address	42 Mt. Ebo Road South Brewster, NY 10509 United States	
Contact person	Not available.	
Telephone	1+845.279.0900	
e-mail	Not available.	
Emergency telephone number	Chemtrec	1+703.527.3887
Issue date	03-13-2019	
SDS No	230	

## SECTION 2 Hazards identification

Emergency overview	Not available.	
Hazard categories		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute Category 3 hazard	
Label elements		
Pictograms	None.	
Signal word	None.	
Hazard statement	None.	
Precautionary statement		
Prevention	None.	
Response	None.	
Storage	None.	
Disposal	None.	
Physical and chemical hazards	Not available.	
Health hazards	Not available.	
Environmental hazards	Not available.	
Supplemental information	None.	

## SECTION 3 Composition/information on ingredients

Substance/mixture	Mixture	
Chemical name	Concentration (%)	CAS Number
Iron	70 - 80	7439-89-6
Chromium	10 - 25	7440-47-3

**SECTION 4 First aid measures**

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Most important symptoms and health effects	Not available.
Personal protection for first-aid responders	Not available.

**SECTION 5 Fire-fighting measures**

Extinguishing media	Not available.
Extinguishing media to avoid	None.
Specific hazards	None.
Special fire fighting procedures	None.
Protection of fire-fighters	None.

**SECTION 6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	Not available.
For emergency responders	Not available.
Environmental precautions	Not available.
Clean-up methods and materials and containment measures	Not available.
Prevention of secondary hazards	Not available.

**SECTION 7 Handling and storage**

Handling	Not available.
Storage	Not available.

**SECTION 8 Exposure controls/personal protection****Exposure limits**

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Components	Type	Value
Chromium (CAS 7440-47-3)	PC-TWA	0.05 mg/m <sup>3</sup>

Biological limit values	No biological exposure limits noted for the ingredient(s).
Monitoring methods	Not available.
Engineering measures	Not available.
Personal protective equipment	
Respiratory protection	Not available.
Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Not available.

**SECTION 9 Physical and chemical properties****Appearance**

Physical state	Solid.
Form	Not available.
Color	Not available.

Odor	Not available.
pH	Not available.
Melting point/freezing point	2800.4 °F (1538 °C) estimated
Boiling point, initial boiling point, and boiling range	4787.6 °F (2642 °C) estimated
Flash point	Not available.
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Density	7.14 g/cm <sup>3</sup> estimated
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Other data	
Specific gravity	7.14 estimated

## SECTION 10 Stability and reactivity

Stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

## SECTION 11 Toxicological information

Acute toxicity	Not available.
Routes of exposure	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitizer	Not available.
Germ cell mutagenicity	Not available.

### Carcinogenicity

#### China OELs for hazardous agents in the workplace: Carcinogen Category

CHROMIUM TRIOXIDE, CHROMATE, DICHROMATE, AS CR (CAS 7440-47-3)      Carcinogenic to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3)      3 Not classifiable as to carcinogenicity to humans.

Toxic to reproduction	Not available.
Specific target organ toxicity following single exposure	Not available.

**Specific target organ toxicity following repeated exposure** Not available.

**Aspiration hazard** Not available.

**Chronic effects** Not available.

## SECTION 12 Ecological information

**Ecotoxicity** Not available.

**Persistence and degradability** Not available.

**Bioaccumulation** Not available.

**Mobility in soil** Not available.

**Other hazardous effects** Not available.

## SECTION 13 Disposal considerations

**Residual waste** Not available.

**Contaminated packaging** Not available.

**Local disposal regulations** Not available.

## SECTION 14 Transport information

### CNDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

## SECTION 15 Regulatory information

### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

#### Classification of occupational disease hazards

Chromium (CAS 7440-47-3)

Iron (CAS 7439-89-6)

### Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

### Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

#### Directory of Highly Toxic Substances

Chromium (CAS 7440-47-3)

### Provision on the Environmental Administration of New Chemical Substances

#### China Inventory of Existing Chemical Substances

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Montreal Protocol

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

**SECTION 16 Other information**

**References**

Not available.

**Revision information**

Product and Company Identification: Product Review  
Composition / Information on Ingredients: Ingredients  
Transport Information: Material Transportation Information