



# SAFETY DATA SHEET

*for Gripper Gasket™ 300 Grade Stainless Steel*

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## SAFETY DATA SHEET - 300 GRADE STAINLESS STEEL

### Section 1: IDENTIFICATION

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#### 1.1 Product Identifier

**Product Name:** 300 Grade Stainless Steel

**CAS Number:** 12597-68-1

**Synonyms:** Stainless Steel

**Product Description:** Stainless Steel Shield is a corrugated partial cylinder shape.

**Product Type:** Stainless Steel

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product Use:** For use only as specified in product literature.

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

Gripper Gasket LLC

1660 Lesson Lane

Corona, CA 92879

#### 1.4 Telephone Number:

951-479-4999

### Section 2: HAZARD IDENTIFICATION

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#### 2.1 Classification of Substance or Mixture

##### Potential Health Effects

##### **Inhalation:**

Exposure to dust and fumes can cause sensitization dermatitis, inflammation and/or ulceration of upper respiratory tract, and cancer of nasal passages and lungs.

#### 2.2 Label Elements

**Signal word:** Health Hazard

**Hazard pictograms:**



##### **Hazard statements:**

Chromium and nickel and their compounds are listed in NTP's 7th Annual Report on Carcinogens. NTP classifies nickel metal and certain nickel compounds as "reasonably anticipated to be carcinogens". IARC classifies nickel metal as a possible human carcinogen (Group 2B) and certain nickel compounds as known human carcinogens (Group 1).

NTP reports that there is inadequate evidence for the carcinogenicity of chromium metal and most trivalent chromium (Cr(III)) compounds in humans and experimental animals. However, NTP classifies certain hexavalent chromium compounds as "known to be carcinogens". Similarly, IARC indicates that chromium metal and trivalent chromium compounds are not classifiable as human carcinogens (Group 3), but that certain hexavalent chromium compounds are known carcinogens (Group 1). Since the hexavalent form of chromium may be produced during welding, heat treating and alkaline descaling processes, an industrial hygiene evaluation of such processes should be conducted to determine if exposure to hexavalent chromium is present.

Finally, this product may contain trace amounts of other heavy metals including arsenic, cadmium, cobalt and lead, recognized by NTP, OSHA or IARC as carcinogens.

See also Section XIV, "Regulatory Information".

#### 2.3 Other Hazards

Not applicable.

### 2.3 Other Hazards

Other hazards which do not result in classification: Not applicable.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Nomenclature	CAS Number	Amount	OSHA PEL-TWA (mg/M <sup>3</sup> )	ACGIH TLV-TWA (mg/M <sup>3</sup> )
Iron [Iron Oxide]	Fe	7439-89-6	60% - 80%	5 [fume]	5; A4 <sup>2</sup> [dust & fume]
ALLOYING ELEMENTS					
Chromium <sup>3</sup> [metal]	Cr	7440-47-3	10% - 30%	0.5 Metal	0.5; A4 [metal]
Nickel <sup>3</sup> [metal]	Ni	7440-02-0	0% - 27%	1	1.5, A5
Manganese <sup>3</sup> [elemental & inorganic cpds]	Mn	7439-96-5	0% - 10%	1 C5 <sup>4</sup> [fume]	0.2
Molybdenum	Mo	7439-98-7	<8%	10 [insoluble cpds, total dust] 5 [soluble cpds]	10 [insoluble cpds] Nic-3 5 [soluble cpds] Nic 0.5A3
Copper <sup>3</sup>	Cu	7440-50-8	<6%	0.1 [fume] 1 [dust]	0.2 [fume] 1 [dust & mists]
Titanium <sup>3</sup> [titanium dioxide]	Ti	13463-67-7	<6%	10 [total dust]	10; A4
Carbon	C	7440-44-0	<2%	N/A	N/A
Aluminum <sup>3</sup>	Al	7429-90-5	<2%	10 [total dust] 5 [resp. fraction]	10 [metal; oxide] 5 [fume]
Phosphorous [yellow]	P	7723-14-0	<2%	0.1	0.1
Sulfur [sulfur dioxide]	S	7746-09-5	<.2%	5	5.2, 13 STEL; A4
Silicon	Si	7440-21-3	<2%	10 [total dust] 5 [resp. fraction]	10
Niobium	Nb	7440-03-1	<2%	N/A	N/A
Tantalum [metal & oxide]	Ta	7440-25-7	<2%	5 [dust] & (oxide)	5 [dusts]
Tin [metal]	Sn	7440-31-5	<2%	2	2
Cobalt <sup>3</sup> [elemental & inorganic cpds]	Co	7440-48-4	<2%	0.05 [dust & fume]	0.02; A3 <sup>5</sup>
Lead <sup>3</sup> [elemental & inorganic cpds]	Pb	7439-92-1	<.1%	0.05	0.05; A3 <sup>5</sup>

<sup>1</sup> Percent of alloying element varies with grade.

<sup>2</sup> A4 = Not classifiable as a human carcinogen.

<sup>3</sup> SARA, Title III, Section 313 Toxic Chemical.

<sup>4</sup> C = Ceiling limit not to be exceeded.

<sup>5</sup> A3 = Animal carcinogen.

## Section 4: FIRST AID MEASURES

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### 4.1 Description of First Aid Measures

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- Inhalation:** The shield is not likely to be hazardous by inhalation but if breathing is difficult, remove victim from the adverse environment to fresh air and call a physician.
- Skin Contact:** The shield is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.  
If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.
- Ingestion:** Not a probable route. However, in case of accidental ingestion, call a physician.
- Protection of First-Aiders:** Not available.

## Section 5: FIREFIGHTING MEASURES

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### 5.1 Flammable Properties

- Flash point:** Not applicable
- Lower explosive limit:** Not applicable
- Upper explosive limit:** Not applicable
- Auto ignition temperature:** Not applicable
- Flammability classification:** Not applicable
- Flammable limits:** Not applicable

### 5.2 Unusual fire and explosion hazards:

This solid formed shield does not constitute a fire or explosion hazard.

### 5.3 Special hazards arising from the substance or mixture

**Hazardous combustion products:** Not applicable for solid formed shield. Toxic metal and metallic oxide fumes may be evolved from fires involving finely divided shield.

## Section 6: ACCIDENTAL RELEASE MEASURES

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- 6.1 Minimal problems with spills of this product would be expected to occur because of its solid form.

## Section 7: HANDLING AND STORAGE

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The information in this section contains generic advice and guidance. the list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling:

Use appropriate material handling equipment.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep in the original container or an approved alternative made from a compatible material.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Exposure Controls

#### Individual Protection Measures

**Eye/Face Protection:** Safety glasses should always be worn when grinding or cutting; face shields should be worn when welding or burning.

#### Skin Protection

**Hand Protection:** Use appropriate protective welder's gloves when welding or burning. Use equipment as required by applicable federal, state and local occupational safety and health laws.

**Body Protection:** Use appropriate protective clothing such as welder's aprons when or burning. Use equipment as required by applicable federal, state and local occupational safety and health laws.

#### **Other Skin Protection:**

**Respiratory Protection:** NIOSH/MSHA-approved dust/mist/fume respirators should be used during welding, burning, and grinding operations, if applicable exposure limits are exceeded.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on Basic Physical and Chemical Properties.

#### Appearance

Physical state	Solid
Color	Gray with metallic luster
Odor	No distinct odor
pH (in water) (ASTM D 1293-95)	Not applicable
Solubility in water	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Boiling point	Not applicable (i.e., >1000° C)
Melting point	(base metal) >1600° F
Specific gravity (H <sub>2</sub> O = 1.0)	Approximately 7
Evaporation rate	Not applicable

## Section 10: STABILITY AND REACTIVITY

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### 10.1 Stability:

Stable.

### 10.2 Conditions to Avoid:

None.

### 10.3 Incompatible Materials:

Reacts with strong acids to produce hydrogen gas.

### 10.4 Hazardous Decomposition:

Will not occur.

### 10.5 Hazardous Polymerization:

Will not occur.

## **Section 11: TOXICOLOGICAL INFORMATION**

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### **11.1 Information on Toxicological Effects**

For a description of available, more detailed toxicological information, contact the supplier or manufacturer.

## **Section 12: ECOLOGICAL INFORMATION**

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### **12.1 Toxicity**

Not applicable for solid shield in its as-shipped form.

## **Section 13: DISPOSAL CONSIDERATIONS**

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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### **13.1 Waste Treatment Methods**

Solid waste generating from product use and processing should be classified by a competent environmental professional and disposed, processed or recycled in accordance with all applicable federal, state and local laws.

## **Section 14: TRANSPORT INFORMATION**

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### **14.1 Hazardous Materials Description/Proper Shipping Name:**

Not applicable for solid formed shield product.

### **14.2 Hazard Class:**

Not applicable for solid formed shield product.

### **14.3 Identification Number:**

Not applicable for solid formed shield product.

## **Section 15: REGULATORY INFORMATION**

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

#### **State Regulations (U.S.):**

##### **Sara Title III Hazard Categorization:**

None is solid form.

##### **Sara Title III Section 302 Extremely Hazardous Substances (EHSs):**

No components are listed as extremely hazardous substances.

##### **California Proposition 65:**

This product contains chromium and nickel metals/compounds known to the State of California to cause cancer. This products may contain trace amounts of other heavy metals, including arsenic, cadmium, cobalt and lead, known to the State of California to cause cancer, birth defects or other reproductive harm.

## **Section 16: ABBREVIATIONS**

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ACGIH	American Conference of Governmental Industrial Hygienists
ASTM	American Society for Testing and Materials
CAS	Chemical Abstract Service
CFR	Code of Federal Regulations
CPR	Cardiopulmonary Resuscitation
EST	Eastern Standard Time

Ft <sup>3</sup>	Cubic Foot
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
M <sup>3</sup>	Cubic Meter
Mg	Milligram
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association
N/A	Not Applicable
NIA	No Information Available
NIF	No Information Found
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PNOR	Particulate Not Otherwise Regulated
PNOC	Particulate Not Otherwise Classified
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
SCBA	Self-Contained Breathing Apparatus
STEL	Short-Term Exposure Limit
TLVS	Threshold Limit Values
TWA	Time-Weighted Average

## Section 17: OTHER INFORMATION

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### Notice to reader:

While the information provided in the MSDS is believed to provide a useful summary of the hazards of stainless steel as it is commonly used, the MSDS cannot anticipate and provide all of the information that might be needed in every situation the user may experience. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation. Professional industrial hygiene and/or safety engineering advice should be sought to assist you in this regard.

The information provided herein was believed by Gripper Gasket LLC to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use.

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