Stainless Steel Continuous Hinge
by National Guard Products

CLASSIFICATION: 08 70 00.00

PRODUCT DESCRIPTION: Stainless steel continuous hinges are hinges that run the full height of a door. NGP stainless steel continuous hinges are made of stainless steel and have nylon bearings. They are affixed with a set of stainless steel screws. The design of the product evenly distributes the weight of the door along the full length of the frame. Continuous hinges are ideal for high frequency and heavy weight doors in new construction and retrofit applications. Continuous hinges are designed to be 1” shorter than the full height of the door. For a standard 3’x7’ door, a typical continuous hinge length is 6’11”.

National Guard Product Continuous Hinge Products are certified Grade 1 to ANSI/BHMA 156.26-2012 for 150 lb. doors.

Section 1: Summary

CONTENT INVENTORY
Inventory Reporting Format
☐ Nested Materials Method
☐ Basic Method

Threshold Disclosed Per
☐ Material
☐ Product

Threshold level
☐ 100 ppm
☐ 1,000 ppm
☐ Per GHS SDS
☐ Per OSHA MSDS
☐ Other

Residuals/Impurities
☐ Considered
☐ Partially Considered
☐ Not Considered

Are All Substances Above the Threshold Indicated:
☐ Yes ☐ No

Characterized
☐ Yes ☐ No

Percent Weight and Role Provided?
☐ Yes ☐ No

Screened
☐ Yes ☐ No

Using Priority Hazard Lists with Results Disclosed?
☐ Yes ☐ No

Identified
☐ Yes ☐ No

Name and Identifier Provided?

CONTENT IN DESCENDING ORDER OF QUANTITY
Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
----------------------------------------------------------------------------------

Number of Greenscreen BM-4/BM3 contents......... 0
Contents highest concern GreenScreen Benchmark or List translator Score............. LT-1
Nanomaterial............. No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT
VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.
No certifications have been added to this HPD.

CONSISTENCY WITH OTHER PROGRAMS
No pre-checks completed or disclosed

Third Party Verified?
☐ Yes ☐ No

PREPARER: Self-Prepared
VERIFIER: 
VERIFICATION #: 
SCREENING DATE: 2017-07-19
PUBLISHED DATE: 2017-08-22
EXPIRY DATE: 2020-07-19

Stainless Steel Continuous Hinge
www.hpd-collaborative.org

HPD v2.1 created via HPDC Builder Page 1 of 6
## STAINLESS STEEL TYPE 304

**PRODUCT THRESHOLD:** 1000 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes

**RESIDUALS AND IMPURITIES NOTES:** Considered at 1000 ppm based on metal standard grades.

**OTHER PRODUCT NOTES:**

### IRON

<table>
<thead>
<tr>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>ROLE</th>
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</thead>
<tbody>
<tr>
<td>66.0000 - 73.8000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Type 304 Alloy</td>
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**HAZARDS:**  
ENDOCRINE: TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.

### CHROMIUM

<table>
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<tbody>
<tr>
<td>18.0000 - 20.0000</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Type 304 Alloy</td>
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</tbody>
</table>

**HAZARDS:**  
ENDOCRINE: TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.

### NICKEL

<table>
<thead>
<tr>
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<tr>
<td>8.0000 - 10.5000</td>
<td>LT-1</td>
<td>None</td>
<td>No</td>
<td>Type 304 Alloy</td>
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</table>

**HAZARDS:**  
MAMMALIAN: EU - R-phrases  
R23 - Toxic by Inhalation (gas, vapour, dust/mist)  
CANCER: EU - R-phrases  
R40 - Limited Evidence of Carcinogenic Effects  
SKIN SENSITIZE: EU - R-phrases  
R43 - May cause sensitization by skin contact  
ORGAN TOXICANT: EU - R-phrases  
R48: Danger of serious damage to health by prolonged...
<table>
<thead>
<tr>
<th><strong>ACUTE AQUATIC</strong></th>
<th>EU - R-phrases</th>
<th>R52 - Harmful to Aquatic Organisms</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CANCER</strong></td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>IARC</td>
<td>Group 2b - Possibly carcinogenic to humans</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>US NIH - Report on Carcinogens</td>
<td>Reasonably Anticipated to be Human Carcinogen</td>
</tr>
<tr>
<td><strong>RESPIRATORY</strong></td>
<td>AOECC - Asthmagens</td>
<td>Asthmagen (ARs) - sensitizer-induced - inhalable forms only</td>
</tr>
<tr>
<td><strong>SKIN SENSITIZE</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H317 - May cause an allergic skin reaction</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H351 - Suspected of causing cancer</td>
</tr>
<tr>
<td><strong>ORGAN TOXICANT</strong></td>
<td>EU - GHS (H-Statements)</td>
<td>H372 - Causes damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td><strong>MULTIPLE</strong></td>
<td>German FEA - Substances Hazardous to Waters</td>
<td>Class 2 - Hazard to Waters</td>
</tr>
<tr>
<td><strong>CANCER</strong></td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td><strong>RESPIRATORY</strong></td>
<td>MAK</td>
<td>Sensitizing Substance Sah - Danger of airway &amp; skin sensitization</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.

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**NITROGEN**

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<th>GB: NoGS</th>
<th>RC: None</th>
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**HAZARDS:**

None Found

**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.

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**CARBON**

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<th>GB: LT-UNK</th>
<th>RC: UNK</th>
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<th>ROLE: Type 304 Alloy</th>
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**HAZARDS:**

None Found

**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.

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**MANGANESE**

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<th>%: 0.0000 - 2.0000</th>
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<th>RC: None</th>
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**SUBSTANCE NOTES:** Range based on allowable ANSI Standards.
HAZARDS:

ENDOCRINE
TEDX - Potential Endocrine Disruptors
Potential Endocrine Disruptor

MULTIPLE
German FEA - Substances Hazardous to Waters
Class 2 - Hazard to Waters

REPRODUCTIVE
Japan - GHS
Toxic to reproduction - Category 1B

SUBSTANCE NOTES: Range based on allowable ANSI Standards.

PHOSPHORUS

<table>
<thead>
<tr>
<th>%: 0.0000 - 0.0450</th>
<th>GS: BM-2</th>
<th>RC: None</th>
<th>GS: BM-2</th>
<th>RC: None</th>
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<tbody>
<tr>
<td>HAZARDS:</td>
<td>AGENCY(IES) WITH WARNINGS:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACUTE AQUATIC</td>
<td>EU - R-phrases</td>
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<tr>
<td>MAMMALIAN</td>
<td>US EPA - EPCRA Extremely Hazardous Substances</td>
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<tr>
<td>PHYSICAL HAZARD (REACTIVE)</td>
<td>EU - GHS (H-statements)</td>
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<tr>
<td></td>
<td>R52 - Harmful to Aquatic Organisms</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Extremely Hazardous Substances</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>H228 - Flammable solid</td>
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SUBSTANCE NOTES: Range based on allowable ANSI Standards.

SILICON

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<td></td>
<td>No warnings found on HPD Priority lists</td>
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SUBSTANCE NOTES: Range based on allowable ANSI Standards.

SULFUR

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<td>SKIN IRRITATION</td>
<td>EU - R-phrases</td>
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<tr>
<td>SKIN IRRITATION</td>
<td>EU - GHS (H-statements)</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>R38 - Irritating to skin</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>H315 - Causes skin irritation</td>
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</table>

SUBSTANCE NOTES: Range based on allowable ANSI Standards.

Section 3: Certifications and Compliance
This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

All ingredients over 1000 ppm of the product are disclosed.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: National Guard Products
ADDRESS: 4985 East Raines Rd
Memphis TN 38118, USA
WEBSITE: www.ngp.com

CONTACT NAME: Roger Skold
TITLE: Technical Director/Inside Sales
PHONE: 901-546-8105
EMAIL: Rogers@ngp.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
LAN Land Toxicity
NF Not found on Priority Hazard Lists

GreenScreen (GS)
BM-4 Benchmark 4 (prefer-safer chemical)
LT-P1 List Translator Possible Benchmark 1

Stainless Steel Continuous Hinge
www.hpdcollaborative.org
Recycled Types

- PreC Preconsumer (Post-Industrial)
- PostC Postconsumer
- Both Both Preconsumer and Postconsumer
- Unk Inclusion of recycled content is unknown
- None Does not include recycled content

Other Terms

Inventory Methods:

- Nested Method / Material Threshold: Substances listed within each material per threshold indicated per material
- Nested Method / Product Threshold: Substances listed within each material per threshold indicated per product
- Basic Method / Product Threshold: Substances listed individually per threshold indicated per product

Nano: Composed of nano scale particles or nanotechnology

Third Party Verified: Verification by independent certifier approved by HPDC

Preparer: Third party preparer, if not self-prepared by manufacturer

Applicable facilities: Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.