**Section 1 - Product and Company Identification**

- **Material Name**: Carbon Raschig Rings
- **Product Description**: Including but not limited to: Rings, Tubes, Pellets
- **Product Use**: Heat Transfer, Mass Transfer.
- **Synonyms**: Carbon Graphite material, GIS Carbon, Graphite felt
- **Manufacturer**: Saint-Gobain NorPro
  
  3840 Fishcreek Road
  Stow, OH 4424
  United States
  www.NorPro.Saint-Gobain.com

- **Telephone**
- General: 330-677-3598
- Emergency: 800-424-9300 - CHEMTREC
- Emergency: 703-527-3887 - CHEMTREC - International

- **Preparation Date**: 02/26/2013
- **Last Revision Date**: 02/29/2016

**Key to abbreviations**

‡ = HMIS is a registered trademark of the American Coatings Association

**Section 2 - Hazards Identification**

2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**
  - The product is not classified as hazardous according to OSHA GHS regulations within the United States.
  - The product is not classified as hazardous according to the CLP regulation.

  - **Additional information**: Adverse health effects are not reasonably expected from normal use of product.

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
  - This product does not have a classification according to the CLP regulation.
  - The product is not classified as hazardous according to OSHA GHS regulations within the United States.

  - **Hazard pictograms** Not Regulated
  - **Signal word** Not Regulated

  - **Hazard-determining components of labelling**: None.
  - **Hazard statements** Not Regulated
  - **Precautionary statements** Not Regulated.

  - **Additional information**: Safety data sheet available on request.

2.3 Other hazards

- **There are no other hazards not otherwise classified that have been identified.**

**Results of PBT and vPvB assessment**

- **PBT**: Not applicable.
Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
</tr>
<tr>
<td>Graphite</td>
</tr>
</tbody>
</table>

Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use. Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use. Under United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) this product is exempt from regulation as a manufactured article.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

**Inhalation**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

**Eye**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

**Ingestion**
- First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

**Extinguishing Media**
- Material is not readily combustible.

**Unsuitable Extinguishing Media**
- Not applicable.

**Firefighting Procedures**
- Material is generally non-combustible and is not expected to pose a fire or explosion hazard. Wear appropriate protective clothing.

**Unusual Fire and Explosion Hazards**
- Material is generally non-combustible and is not expected to pose a fire or explosion hazard.

**Hazardous Combustion Products**
- Carbon monoxide and carbon dioxide.

**Protection of Firefighters**
- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

**Personal Precautions**
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended. Do not breathe dust. Ventilate enclosed areas.

**Emergency Procedures**
- No emergency procedures are expected to be necessary if material is used under ordinary conditions and as recommended. Use normal clean up procedures.

**Environmental Precautions**
- Prevent entry into waterways, sewers, basements or confined areas.
**Containment/Clean-up Measures**
- Avoid generating dust. Sweep, shovel or vacuum up spilled material and place in appropriate container. If dust clean up is necessary be sure to use vacuum cleaner equipped with HEPA filter.

**Other Information**
Graphite is electrically conductive. Dust accumulation may cause electrical short circuits or other malfunctions.

---

### Section 7 - Handling and Storage

**Handling**
- Avoid rough handling. Use only with adequate ventilation. Avoid dust inhalation and contact with skin and eyes. Wash thoroughly after handling. Use good safety and industrial hygiene practices. Spilled material may cause surfaces to become slippery.

**Storage**
- Store in a cool, dry place.

**Special Packaging Materials**
- No data available.

**Incompatible Materials or Ignition Sources**
- None known.

---

### Section 8 - Exposure Controls/Personal Protection

**Personal Protective Equipment**

**Pictograms**

- ![Respiratory](image)
- ![Eye/Face](image)
- ![Hands](image)
- ![Skin/Body](image)

**Respiratory**
- In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/Face**
- Wear safety glasses.

**Hands**
- Wear appropriate gloves.

**Skin/Body**
- Use of protective coveralls and long sleeves is recommended to prevent possible abrasion to skin.

**General Industrial Hygiene Considerations**
- Use good industrial hygiene practices in handling this material. Availability of eye wash fountains and emergency showers are recommended.

**Engineering**
- Good general ventilation and/or local exhaust ventilation should be used. Ventilation rates should be matched to conditions in order to ensure that concentrations of airborne contaminants are below applicable threshold limit values.

---

#### Exposure Limits/Guidelines

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<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
<th>China</th>
<th>Japan</th>
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**Key to abbreviations**
- STEV = Short Term Exposure Value
- ACGIH = American Conference of Governmental Industrial Hygiene
- NIOSH = National Institute of Occupational Safety and Health
- OEL = Occupational Exposure Limit
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- TWAEV = Time-Weighted Average Exposure Value
Section 9 - Physical and Chemical Properties

Physical Form
- Solid

Appearance/Description
- Black to dark grey rings, tubes,

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<tr>
<td>Color</td>
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<td>Persistence</td>
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<td>Degradation</td>
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</table>

Section 10 - Stability and Reactivity

Stability
- Stable under normal temperatures and pressures.

Hazardous Polymerization
- Hazardous polymerization will not occur.

Conditions to Avoid
- Avoid creating dusts.

Incompatible Materials
- Strong oxidizers.

Hazardous Decomposition Products
- Carbon Monoxide, carbon dioxide

Section 11 - Toxicological Information

No toxicological information is available for the material as a whole. Under normal conditions of use, no health effects are expected. Dust may produce mechanical irritation to eyes and skin. Inhalation of dust may cause respiratory irritation.

Section 12 - Ecological Information

Ecological Fate
- No data available

Persistence/Degradability
- No data available

Bioaccumulation Potential
- No data available

Mobility in Soil
- No data available
Section 13 - Disposal Considerations

Product

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT - United States - Department of Transportation
Shipping Name: Not Regulated

TDG - Canada - Transport of Dangerous Goods
Shipping Name: Not Regulated

IMO/IMDG – International Maritime Transport
Shipping Name: Not Regulated

IATA - International Air Transport Association
Shipping Name: Not Regulated

Section 15 - Regulatory Information

SARA Hazard Classifications

- None

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<tr>
<th>Component</th>
<th>CAS</th>
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</table>

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Graphite 7782-42-5 99% TO 100% ClassD-2A Material causing other toxic effects

Canada - WHMIS - Ingredient Disclosure List

- Graphite 7782-42-5 99% TO 100% Not Listed

Environment

Canada - CEPA - Priority Substances List

- Graphite 7782-42-5 99% TO 100% Not Listed

Canada British Columbia
<table>
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<td>Canada</td>
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<td>Yukon</td>
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China

Other
### China - Annex I & II - Controlled Chemicals Lists

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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Purity</th>
<th>Status</th>
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<tbody>
<tr>
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</table>

### Europe

#### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

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<th>Substance</th>
<th>CAS Number</th>
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<td>7782-42-5</td>
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</table>

### Japan

#### Labor

**Japan - ISHL Dangerous Substances**

<table>
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<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Purity</th>
<th>Status</th>
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<tbody>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>99% TO 100%</td>
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**Japan - ISHL Designated Carcinogens**

<table>
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<th>Purity</th>
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<td>Graphite</td>
<td>7782-42-5</td>
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**Japan - ISHL Harmful Substances Prohibited for Manufacture**

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<th>Purity</th>
<th>Status</th>
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<td>Graphite</td>
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**Japan - ISHL Harmful Substances Requiring Workers to Subject to Medical Exams**

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<th>CAS Number</th>
<th>Purity</th>
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<tr>
<td>Graphite</td>
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**Japan - ISHL Harmful Substances Subject to Obtaining Permission for Manufacturing**

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<td>Graphite</td>
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**Japan - ISHL Harmful Substances Whose Names Are to be Indicated on the Label**

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<th>CAS Number</th>
<th>Purity</th>
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</thead>
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**Japan - ISHL Prevention of Lead Poisoning**

<table>
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<th>Purity</th>
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<td>Graphite</td>
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**Japan - ISHL Mutagens - Existing Chemicals**

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**Japan - ISHL Mutagens - New Chemicals**

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**Japan - ISHL Notifiable Substances**

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**Japan - ISHL Prevention of Organic Solvent Poisoning**

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### Environment

**Japan - Air Pollution Control Law - Emission Standards for Air Pollutants**
<table>
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<tr>
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<th>CAS Number</th>
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<tbody>
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<td>Graphite</td>
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### Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances
- Graphite 7782-42-5 99% TO 100% Not Listed

### Japan - Pollutant Release Transfer Register (PRTR) - Class 2 Substances
- Graphite 7782-42-5 99% TO 100% Not Listed

### Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)
- Graphite 7782-42-5 99% TO 100% Not Listed

### United States

#### Labor
- **U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - OSHA - Specifically Regulated Chemicals**
  - Graphite 7782-42-5 99% TO 100% Not Listed

#### Environment
- **U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**
  - Graphite 7782-42-5 99% TO 100% Not Listed
- **U.S. - CWA (Clean Water Act) - Hazardous Substances**
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- **U.S. - CWA (Clean Water Act) - Priority Pollutants**
  - Graphite 7782-42-5 99% TO 100% Not Listed
### U.S. - CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - CWA (Clean Water Act) - Toxic Pollutants

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

- **Graphite**
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  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - F Series Wastes - Wastes from Nonspecific Sources

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - K Series Wastes - Wastes from Specified Sources

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

- **Graphite**
  - CAS Number: 7782-42-5
  - Purity: 99% TO 100%
  - Status: Not Listed
**Section 16 - Other Information**

**Last Revision Date**
- 02/29/2016

**Preparation Date**
- 02/26/2013

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**Key to abbreviations**
- NDA = No Data Available