



INDUSTRIES 3R

February 2017

# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

### IDENTITY:

Part Number: 3R865  
Identity: Compressed Non-Asbestos Gasket Sheet  
Description: Compressed Non-Asbestos Gasket Sheet

### SUPPLIER :

**Industries 3R Inc.**  
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification:

Physical Health  
Combustible Dust Not Hazardous

**Label Elements:** Warning!

May form combustible dust concentrations in air.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS#	Percentage
Kaolin	1332-58-7	20-50
Nitrile and Natural Rubbers	Proprietary	10-30
Barium Sulfate	7727-43-7	3-10
Hydrated Amorphous Silica	112926-00-8	3-10
Mica	12001-26-2	3-10
Aramid Fibers	26125-61-1	2-10
Cellulose	9004-34-6	1-5
Crystalline Silica, quartz*	14808-60-7	<5
Zinc Oxide	1314-13-2	<2
Phenolic Resin	9003-35-4	<2

\* The crystalline silica, quartz in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore the product is not classified as a carcinogen or Specific Target Organ Toxicity Repeat Exposure Category 1.

## SECTION 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of water, especially under eyelids. Get medical attention if irritation persists.

**Skin:** No first aid should be needed. Get medical attention if irritation occurs and persists.

**Inhalation:** If irritation or other symptoms occur, remove to fresh air. Get medical attention if irritation or symptoms persist.

**Ingestion:** No adverse effects are expected. Consult a physician if large amounts are swallowed.

**Most important symptoms/effects, acute and delayed:**

Dust may cause mechanical eye irritation. Prolonged contact may cause mild skin irritation. Inhalation of dust may cause nose, throat and upper respiratory tract irritation.

**Indication of immediate medical attention and special treatment, if necessary:**

No immediate medical attention is required.

**SECTION 5. FIRE FIGHTING MEASURES**

**Suitable (and unsuitable) extinguishing media:**

Use any extinguishing media that is appropriate for the surrounding fire. This product is an ordinary combustible. Water is most effective.

**Specific hazards arising from the chemical:**

Solid product will burn slowly under fire conditions. Avoid generating dust. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Thermal decomposition can yield oxides of carbon and nitrogen, hydrogen cyanide and small amounts of aliphatic and aromatic hydrocarbons.

**Special Fire Fighting Procedures:**

Fight as any normal fire using self-contained breathing apparatus (SCBA) and full protective clothing where exposed to smoke.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures:**

None required under normal conditions of use.

**Environmental hazards:**

Report spill as required by local and federal regulations.

**Methods and materials for containment and cleaning up:**

Pick-up solid material for reuse or disposal. Collect dust using dustless method (HEPA vacuum or wet method) and place in appropriate container for disposal or use. Do not use compressed air. Do not sweep up.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling:**

Avoid creation and inhalation of dust. Provide local exhaust ventilation at points where dust may be generated during cutting and processing. Do not use compressed air for cleaning. Follow good housekeeping procedures to minimize the accumulation of dust in the workplace.

**Conditions for safe storage:**

No special storage required.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure guidelines:**

Component	Exposure Limit/Source
Kaolin	5 mg/m <sup>3</sup> (respirable), 15 mg/ m <sup>3</sup> (total dust) TWA OSHA PEL 2 mg/m <sup>3</sup> TWA (respirable) ACGIH TLV
Nitrile and Natural Rubbers	None Established

Barium Sulfate	5 mg/m <sup>3</sup> (respirable), 15 mg/ m <sup>3</sup> (total dust) TWA OSHA PEL 10 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable)
Hydrated Amorphous Silica	<u>80 mg/m<sup>3</sup></u> TWA OSHA PEL %SiO <sub>2</sub>
Mica	20 mppcf TWA(respirable) OSHA PEL 3 mg/m <sup>3</sup> TWA ACGIH TLV (respirable)
Aramid Fibers	None Established
Cellulose	5 mg/m <sup>3</sup> TWA (respirable), 15 mg/ m <sup>3</sup> TWA (total dust) TWA OSHA PEL 10 mg/m <sup>3</sup> TWA ACGIH TLV
Crystalline Silica, quartz	<u>10 mg/m<sup>3</sup></u> TWA OSHA PEL (respirable fraction) %SiO <sub>2</sub> +2 <u>30 mg/m<sup>3</sup></u> TWA OSHA PEL (total dust) %SiO <sub>2</sub> +2 0.025 mg/m <sup>3</sup> TWA ACGIH TLV (respirable)
Zinc Oxide	5 mg/m <sup>3</sup> (respirable), 15 mg/ m <sup>3</sup> (total dust) TWA OSHA PEL 2 mg/m <sup>3</sup> TWA (respirable), 10 mg/m <sup>3</sup> STEL (respirable) ACGIH TLV
Phenolic Resin	None Established

**Definitions:**

PEL means OSHA Permissible Exposure Limit.

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value.

TWA means time-weighted average.

STEL means short-term exposure limit.

**Appropriate engineering controls:**

No special ventilation required for handling solid material. Local exhaust or process enclosures may be needed if dust is generated in processing.

**Personal Protective Measurers:**

**Respiratory Protection:**

None required for handling solid material. If processing generates dust and engineering controls are not available to control the exposures, appropriate respiratory protection may be required. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Skin Protection:** None normally required.

**Eye Protection:** Follow facility requirements.

**Other Protective Equipment:** None normally required. Wear protective clothing in dusty environments.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance (physical state, color, etc.):**

Green sheet. Flat or rolled sheet ranging from 1/64” through 1/8” in thickness; or material may be cut into gasket shapes.

**Odor:** No odor.

<b>Odor threshold:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Melting point/Freezing point:</b>	Not applicable
<b>Boiling point:</b>	Not applicable
<b>Flash point:</b>	Not applicable

<b>Evaporation rate:</b>	
<b>Flammability (solid, gas):</b>	Not applicable
<b>Flammable limits:</b>	<b>LEL:</b> Not applicable <b>UEL:</b> Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density:</b>	Not applicable
<b>Relative density:</b>	1.75
<b>Solubility:</b>	Insoluble in water
<b>Partition coefficient: n-octanol/water:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not applicable

#### **SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Not reactive
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	Avoid open flames.
<b>Incompatible materials:</b>	Avoid contact with strong oxidizers
<b>Hazardous decomposition products:</b>	Thermal decomposition can yield oxides of carbon and nitrogen, hydrogen cyanide and small amounts of aliphatic and aromatic hydrocarbons.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

The hazardous components in this product are not volatile and bound in a polymer matrix so exposure to these chemicals does not occur under normal handling conditions. Dust may be generated while cutting or processing.

#### **Potential Health Effects:**

**Eye Contact:** Dust may cause mechanical abrasion or injury.

**Skin Contact:** Prolonged contact may mild irritation.

**Ingestion:** No toxic effects are expected. Ingestion of large amounts may cause gastrointestinal irritation.

**Inhalation:** Inhalation of dust that may be generated in processing may cause nose, throat and upper respiratory tract irritation.

#### **Chronic Hazards:**

Prolonged inhalation of dust may cause a fibrotic lung disease (pneumoconiosis) and lung cancer. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with pneumoconiosis are predisposed to develop tuberculosis. Inhalation of zinc oxide may cause metal fume fever, characterized by metallic taste in the mouth and flu-like symptoms. Symptoms resolve in 24-48 hours.

#### **Carcinogen:**

This product contains crystalline silica, quartz. Crystalline silica, quartz is listed by IARC as a "Carcinogenic to Humans" (Group 1) and as a "Known to be a Human Carcinogen" by NTP. This chemical is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore this

product is not classified as a carcinogen. None of the other components of this product are listed as a carcinogen by IARC, NTP or OSHA.

**Acute Toxicity Data:**

- Kaolin: No toxicity data available
- Nitrile and Natural Rubbers: No toxicity data available
- Barium Sulfate: Oral rat LD50 307 g/kg, Dermal rat LD50 >2000 mg/kg
- Hydrated Amorphous Silica: No toxicity data available
- Mica: No toxicity data available
- Aramid Fibers: No toxicity data available
- Cellulose: No toxicity data available
- Crystalline Silica, Quartz: Oral rat LD50 >22,500 mg/kg
- Zinc Oxide: Oral rat LD50 >5000 mg/kg; Inhalation rat LC50 > 5.7 mg/L/4 hr; Dermal rabbit LD50; > 2000 mg/kg
- Phenolic Resin: No toxicity data available

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

- Kaolin: No data available
- Nitrile and Natural Rubbers: No data available
- Barium Sulfate: 96 hr LC50 Danio rerio >3.5 mg/L, 48 hr EC50 daphnia magna 14500 ug/L, 72 he EC50 Pseudokirchnerella subcapitata > 1.15 mg/L
- Hydrated Amorphous Silica: No data available
- Mica: No data available
- Aramid Fibers: No data available;
- Cellulose: No data available. Cellulose is not expected to be harmful to aquatic life.
- Crystalline Silica, Quartz: No data available
- Zinc Oxide: 96 hr LC50 Pimephales promelas 330 µg/L; 48 hr EC50 Daphnia magna 2.6 mg/L; 72 hr EC50 Pseudokirchnerella subcapitata 136 µg/L
- Phenolic Resin: No data available

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available. Not expected to bioaccumulate.

**Mobility in soil:** No data available.

**Other adverse effects:** The product is not expected to cause adverse effects to aquatic organisms.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

**SECTION 14. TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**

Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

**SECTION 15. REGULATORY INFORMATION**

**Safety, health, and environmental regulations specific for the product in question.**

**EPA SARA 311 Hazard Classification:** Not Hazardous

**EPA SARA 313 Chemicals:** This product contains the following chemicals listed under SARA 313:

Zinc Compounds (zinc oxide) 1314-13-2 <2%

Barium Compounds (barium sulfate) 7727-43-7 35-55%

**Hazardous Substance (40CFR 116) CERCLA:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer and/or reproductive toxicity:

Crystalline Silica, quartz	14808-60-7	<2%	Cancer
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**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

**SECTION 16. OTHER INFORMATION**

NFPA Hazard Rating: Health: 0 Fire: 1 Reactivity: 0

HMIS Hazard Rating: Health: 1\* Fire: 1 Reactivity: 0

\* Chronic Health Hazard

**DISCLAIMER** – The information provided in this Safety Data Sheet is based on our current knowledge. While the information and recommendations set forth herein are believed to be accurate, Industries 3R takes no warranty with respect thereto and disclaims all liability in reliance thereon. We recommend testing according to local conditions. The specifications are subject to change without notice.

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