



## Material Safety Data Sheet

Style DX NEO 300 Compressed Sheet

DXSeal, Inc.

Revised: March 25, 2014

### Section 1 – Chemical Product and Company Identification

**Product Name:** DX NEO 300 – Compressed Non-asbestos gasket material

**Chemical Name:** Synthetic Fibers and Neoprene Binder

**Product Use:** Gasket – static seal

**Manufacturer Information:** DXSeal, Inc.

DXSeal, Inc.

P.O. Box 223

Vienna, OH 44473

(330) 856-4635

**Emergency Contacts:** Kathy Thomas

**Prepared By:** Rebecca Kniceley (330) 856-4635

**Preparation Date:** March 25, 2014

**Supersedes:** all previous issues. Subject to change without notice.

### Section 2 – Composition/Ingredient Information

**Product Description:** Composite material based on fibers, fillers and elastomeric binder. Ingredients:

CAS #	Description	Percentage
Proprietary	Chloroprene Rubber	10 - 20%
26125-61-1	Aramid	2 – 10%
9004-34-6	Cellulose	1 – 6%
1333-86-4	Carbon black	<2%
1332-58-7	Kaolin	30 – 45%
7727-43-7	Barium Sulfate	<2%
7631-86-9	Amorphous Silica	3 – 10%
12001-26-2	Mica	10 – 20%
1314-13-2	Zinc Oxide	<2%
14808-60-7	Crystalline Silica, quartz	<1%

## Section 3 – Hazardous Identification

This product is a solid gasket material that presents no health or physical hazards under normal conditions of use. 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. In halation of dust that may be generated in cutting or other processing may cause eye and respiratory irritation. Prolonged inhalation of dust may cause lung damage and cancer. Minimize exposure to airborne dust

### Potential Health Effects:

**Eye Contact:** Dust may cause irritation and mechanical, abrasion injury.

**Skin Contact:** No irritation or other adverse effects are expected.

**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 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.

**Medical Conditions Aggravated By Exposure:** Pre-existing lung conditions may be aggravated by exposure to dust.

**Carcinogen:** Respirable crystalline silica is listed as a known human carcinogen by IARC (Group 1) and NTP. Carbon Black is classified by IARC as a possible carcinogen (Group 2B). Ethylene Thiourea is listed by NTP as Reasonably Anticipated to be a Carcinogen. None of the other components of this product are listed as a carcinogen by IARC, NTP or OSHA.

## Section 4 – First Aid Measures

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

**Skin:** No adverse effects are expected. Wash with soap and water.

**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.

## Section 5 – Fire Fighting Measures

**Flash Point:** n/a

**Flammability Limits:** n/a

**Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding

fire. This product is an ordinary combustible. Water is most effective.

**Special Fire Fighting Procedures:** Fight as any normal fire using SCBA and full protective clothing where exposed to smoke.

**Unusual Fire and Explosion Hazards:** Solid product will burn slowly under fire conditions. Fine dusts that may be generated during processing may present a greater fire and explosion hazard.

**Hazardous Combustion Products:** Thermal decomposition can yield carbon monoxide, carbon dioxide, hydrogen chloride, oxides of nitrogen, hydrogen cyanide, sulfur dioxides, organic acids, organic alcohols and small amounts of aliphatic and aromatic hydrocarbons.

## Section 6 – Accidental Release Measures

Pick-up solid gasket material for reuse or disposal. No special precaution required. For dust that may be generated, collect with methods such as vacuuming or wet wiping, that minimizes the generation of airborne dust. Only vacuum using a HEPA filter equipped vacuum cleaner.

## Section 7 – Handling and Storage

**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.

### Section 8 – Exposure Control / Personal Protection

Component	Exposure Limit/Source
Chloroprene Rubber	None Established
Aramid	None Established
Cellulose	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
Carbon Black	3.5 mg/m <sup>3</sup> TWA OSHA PEL 3.5 mg/m <sup>3</sup> TWA ACGIH TLV
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
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

#### Definitions:

PEL: OSHA Permissible Exposure Limit

TLV: American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value PEL: OSHA Permissible Exposure Limit

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

Chloroprene Rubber	None Established
Aramid	None Established
Cellulose	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
Carbon Black	3.5 mg/m <sup>3</sup> TWA OSHA PEL 3.5 mg/m <sup>3</sup> TWA ACGIH TLV
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
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
Amorphous Silica	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> TWA OSHA PEL
Mica	20 pica TWA OSHA PEL 3 mg/m <sup>3</sup> TWA (respirable) ACGIH TLV

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) ACGIH TLV 10 mg/m <sup>3</sup> (respirable) STEL ACGIH TLV
Crystalline Silica, quartz	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 TWA OSHA PEL 0.025 mg/m <sup>3</sup> TWA (respirable) ACGIH TLV
Ethylene Thiourea	None Established (PEL/TLV)

TWA: time-weighted average

STEL: short-term exposure limit.

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

**Respiratory Protection:** None required for handling solid gasket material. If processing generates dust and engineering controls are not available to control the exposures, appropriate respiratory protection may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

**Skin Protection:** None required for handling solid gasket material. If dust is generated in processing, wear appropriate gloves.

**Eye Protection:** None required for handling solid gasket material. Follow facility requirements. If dust is generated in processing, wear safety goggles.

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

## Section 9 – Physical and chemical Properties

<b>Appearance</b>	Black Rubber	<b>Odor</b>	Slight odor
<b>Specific Gravity</b>	1.7	<b>Solubility in water</b>	Insoluble
<b>Flash point</b>	Not Applicable	<b>Autoignition Temp</b>	Not determined
<b>Flammable Limits: LEL:</b>	Not applicable	<b>UEL:</b>	Not applicable

## Section 10 – Chemical Stability and Reactivity Information

**Stability:** Stable

**Incompatibility/Conditions to Avoid:** Avoid contact with strong oxidizers and open flames.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** Thermal decomposition can yield carbon monoxide, carbon dioxide, hydrogen chloride, oxides of nitrogen, hydrogen cyanide, sulfur dioxides, organic acids, organic alcohols and small amounts of aliphatic and aromatic hydrocarbons. The hazardous components in this product are not volatile and bound in a polymer matrix

## Section 11 – Toxicological Information

**Acute Toxicity:**

**A) General Product Information:** Dusts produced when removing product from service may cause mechanical irritation to skin and eyes.

**B) Component Analysis:**

**Component Carcinogenicity:** None known

**Irritancy of the Product:**

**Acute Inhalation:** Dust from this product may cause mechanical irritation of the nose, throat and respiratory tract.

**Skin Contact:** Dust from this product may cause temporary irritation to the skin.

**Eye Contact:** Dust from this product may cause temporary mechanical irritation to the eyes. Exposure to these chemicals does not occur under normal handling conditions. Prolonged inhalation of dust that may be generated in processing may cause lung disease and cancer. 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.

## Section 12 – Ecological Information

These products are inert solids. They are not expected to present any hazard to the environment under normal conditions.

## Section 13 – Disposal Considerations

**Waste Disposal Method:** These products may be classified as hazardous waste under US EPA RCRA regulations due to leachable barium content. Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more



## Material Safety Data Sheet

Style DX NEO 300 Compressed Sheet

DXSeal, Inc.

Revised: March 25, 2014

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 – Transportation Information

### U.S. DOT HAZARD CLASSIFICATION

Proper Shipping Name: Not Regulated

Technical Name: Not applicable

UN Number: Not applicable

Hazard Class/Packing Group: Not applicable

Labels Required: None

## Section 15 – Regulatory Information

**EPA SARA 311 Hazard Classification:** Chronic Health

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

SARA 313: Zinc Compounds <2%

Ethylene Thiourea <1%

**Hazardous Substance (40CFR 116) CERCLA:** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer: Crystalline Silica <1%, Carbon Black <2%, Ethylene Thiourea <1%

**Canada Workplace Hazardous Materials Information System (WHMIS):**

Class D - Division 2 - Subdivision A- (Very toxic material causing other toxic effects).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.



## Material Safety Data Sheet

Style DX NEO 300 Compressed Sheet

DXSeal, Inc.

Revised: March 25, 2014

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

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

\* Chronic Health Hazard

---

The suggestions and data provided herewith are based upon tests and information which we believe to be reliable. However, we make no guarantee with respect thereto and assume no liability resulting from the use thereof. Users should make their own investigations to determine the suitability of the information or the products for their particular purpose. Furthermore, nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.