

**SAFETY DATA SHEET**

in accordance with 29 CFR 1910.1200 / WHMIS 2015

**Revision date:** 11 April 2023

**Date of previous issue:** –

**SDS No.** 152BNA

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

860 Moldable Polymer Gasketing (Cartridge)

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

**Relevant identified uses:** Solid gap filler. Makes any size, any shape gasket. Never sticks.

**Uses advised against:** No data available

**Reason why uses advised against:** Not applicable

**1.3. Details of the supplier of the safety data sheet**

**Company:**

A.W. CHESTERTON COMPANY

860 Salem Street

Groveland, MA 01834-1507, USA

Tel. +1 978-469-6446 Fax: +1 978-469-6785

(Mon. - Fri. 8:30 - 5:00 PM EST)

SDS requests: [www.chesterton.com](http://www.chesterton.com)

E-mail (SDS questions): [ProductSDSs@chesterton.com](mailto:ProductSDSs@chesterton.com)

E-mail: [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**Supplier:**

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,  
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055

**1.4. Emergency telephone number**

24 hours per day, 7 days per week

Call Infotrac: 1-800-535-5053

Outside N. America: +1 352-323-3500 (collect)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**2.1.1. Classification according to 29 CFR 1910.1200 / WHMIS 2015**

Reproductive toxicity, Category 2, H361f

Hazardous to the aquatic environment, Chronic, Category 2, H411

**2.1.2. Additional information**

For full text of H-statements: see SECTIONS 2.2 and 16. The safety and health hazards are detailed separately by part. The final cured material is considered nonhazardous.

**2.2. Label elements**

**Labeling according to 29 CFR 1910.1200 / WHMIS 2015**

**Hazard pictograms:**



**Signal word:**

Warning

**Hazard statements:**

H361f

Suspected of damaging fertility.

H411

Toxic to aquatic life with long lasting effects.

<b>Precautionary statements:</b>	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P273	Avoid release to the environment.
	P280	Wear protective gloves and eye protection.
	P308/313	IF exposed or concerned: Get medical advice/attention.
	P391	Collect spillage.
	P501	Dispose of contents/container to an approved waste disposal plant.

**2.3. Other hazards**

None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

<b>Hazardous Ingredients<sup>1</sup></b>	<b>% Wt.</b>	<b>CAS No.</b>
Zinc oxide	7 - 13	1314-13-2
Ethyl polysilicate	1 - 5	68412-37-3 *
Octamethylcyclotetrasiloxane	< 0.4	556-67-2
Other ingredients:		
Calcium carbonate **	20 - 30	1317-65-3
Silica (Quartz) **	0.1 - 0.2	14808-60-7

\*Alternative CAS No. 11099-06-2.

\*\*Substance with a workplace exposure limit.

<sup>1</sup> Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)  
• WHMIS 2015, GHS

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.**Skin contact:** Remove uncured product from skin and wash with soap and water. Contact physician if irritation persists.**Eye contact:** Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.**Ingestion:** If person is conscious, rinse mouth with water and give small quantities of water to drink. Do not induce vomiting without medical advice. Consult physician.**Protection of first-aiders:** Avoid contact with the product while providing aid to the victim. See section 8.2.2 for recommendations on personal protective equipment.**4.2. Most important symptoms and effects, both acute and delayed**

May cause mild irritation to skin, eyes and respiratory tract.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**SECTION 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable extinguishing media:** Carbon dioxide, foam or dry chemical**Unsuitable extinguishing media:** Water jets**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products:** Carbon Monoxide, Carbon Dioxide and other toxic fumes.**Other hazards:** None**5.3. Advice for firefighters**

Recommend Firefighters wear self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Utilize exposure controls and personal protection as specified in Section 8.

**6.2. Environmental Precautions**

Keep out of sewers, streams and waterways.

**6.3. Methods and material for containment and cleaning up**

Scoop up and transfer to a suitable container for disposal.

**6.4. Reference to other sections**

Refer to section 13 for disposal advice.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry area.

**7.3. Specific end use(s)**

No special precautions.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limit values**

Ingredients	OSHA PEL <sup>1</sup>		ACGIH TLV <sup>2</sup>	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Zinc oxide	N/A	15 (total) 5 (resp.)	N/A	2 (resp.) STEL: 10 (resp.)
Ethyl polysilicate	N/A	N/A	N/A	N/A
Octamethylcyclotetrasiloxane *	N/A	N/A	N/A	N/A
Calcium carbonate	N/A	15 (total) 5 (resp.)	N/A	10 ** (inhal.) 3 (resp.)
Silica (Quartz)	(resp.) (total)	0.05 0.3	(resp.)	0.025

\* Chesterton recommended limit (OARS): 10 ppm

\*\* Particles Not Otherwise Specified (PNOS)

<sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**8.2. Exposure controls****8.2.1. Engineering measures**

No special requirements.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed.

**Protective gloves:** Rubber or vinyl-coated gloves

**Eye and face protection:** Recommend safety glasses.

**Other:** None

**8.2.3. Environmental exposure controls**

Refer to sections 6 and 12.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	paste	<b>pH</b>	not applicable
<b>Colour</b>	white	<b>Kinematic viscosity</b>	not determined
<b>Odour</b>	sweet odor	<b>Solubility in water</b>	insoluble
<b>Odour threshold</b>	not determined	<b>Partition coefficient</b>	not applicable
		<b>n-octanol/water (log value)</b>	
<b>Boiling point or range</b>	not applicable	<b>Vapour pressure @ 20°C</b>	not determined
<b>Melting point/freezing point</b>	not applicable	<b>Density and/or relative density</b>	1.30 kg/l
<b>% Volatile (by volume)</b>	0%	<b>Weight per volume</b>	10.85 lbs/gal
<b>Flammability</b>	no data available	<b>Vapour density (air=1)</b>	> 1
<b>Lower/upper flammability or explosion limits</b>	not determined	<b>Rate of evaporation (ether=1)</b>	< 1
<b>Flash point</b>	195°C (383°F)	<b>% Aromatics by weight</b>	0%
<b>Method</b>	ASTM D3828	<b>Particle characteristics</b>	not applicable
<b>Autoignition temperature</b>	not determined	<b>Explosive properties</b>	not determined
<b>Decomposition temperature</b>	not determined	<b>Oxidising properties</b>	not applicable

**9.2. Other information**

None

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Refer to sections 10.3 and 10.5.

**10.2. Chemical stability**

Stable

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under conditions of normal use.

**10.4. Conditions to avoid**

Moisture and excessive heat. Generates Formaldehyde at 150°C (300°F).

**10.5. Incompatible materials**

Acids and strong oxidizers like liquid Chlorine and concentrated Oxygen; ammonium salts.

**10.6. Hazardous decomposition products**

Oxides of Silicone, Carbon Monoxide, Carbon Dioxide and other toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

**Primary route of exposure under normal use:** Inhalation, skin and eye contact.

**Acute toxicity -****Oral:**

Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Calcium carbonate	LC50, rat	6,450 mg/kg
Zinc oxide	LD50, rat	> 5,000 mg/kg
Ethyl polysilicate	LD50, rat	> 2,000 mg/kg
Octamethylcyclotetrasiloxane	LD50, rat	> 2,000 mg/kg

**Dermal:**

Substance	Test	Result
Ethyl polysilicate	LD50, rat	> 4,450 mg/kg
Zinc oxide	LD50, rabbit	> 5,000 mg/kg
Octamethylcyclotetrasiloxane	LD50, rabbit	> 4,640 mg/kg

**Inhalation:**

Substance	Test	Result
Zinc oxide	LC50, rat	> 5.7 mg/l (dust)
Octamethylcyclotetrasiloxane	LC50, rat	36 mg/l (mist)

**Skin corrosion/irritation:**

Substance	Test	Result
Calcium carbonate	Skin irritation, rabbit	Not irritating
Zinc oxide	Skin irritation, rabbit (OECD 404)	Not irritating

**Serious eye damage/irritation:**

Substance	Test	Result
Ethyl polysilicate	Eye irritation, human, 3,000 ppm	Severe irritation
Zinc oxide	Eye irritation, rabbit (OECD 405)	Not irritating

**Respiratory or skin sensitisation:**

Substance	Test	Result
Zinc oxide	Skin sensitization, rabbit	Not irritating

**Germ cell mutagenicity:**

Zinc oxide, Octamethylcyclotetrasiloxane: based on available data, the classification criteria are not met.

**Carcinogenicity:**

The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have classified inhaled silica as a human carcinogen. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use.

**Reproductive toxicity:**

Octamethylcyclotetrasiloxane has caused impaired fertility in animal inhalation studies. Zinc oxide: based on available data, the classification criteria are not met.

**STOT – single exposure:**

Zinc oxide: based on available data, the classification criteria are not met.

**STOT – repeated exposure:**

Repeated inhalation of respirable free silica may cause scarring of the lungs with cough and shortness of breath. Silicosis, a delayed lung injury that is a disabling, progressive and sometimes fatal pulmonary fibrosis, may result. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use.

**Aspiration hazard:**

Based on available data, the classification criteria are not met.

**Other information:**

None known

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

**12.1. Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Zinc oxide: chronic NOEC, algae, 72 hours = 0.017 mg/l; 72 h EC50 (for algae) = 0.042 mg/l. Octamethylcyclotetrasiloxane: chronic NOEC, 93 days, fish = 0.0044 mg/l.

**12.2. Persistence and degradability**

Ethyl polysilicate: not readily biodegradable. Zinc oxide, Calcium carbonate, Silica: inorganic substances. Ethyl polysilicate: hydrolyzes in water or moist air, releasing ethanol. Octamethylcyclotetrasiloxane, biodegradation, 29 days, OECD 301: 3.7%.

**12.3. Bioaccumulative potential**

Calcium carbonate, Zinc oxide: not expected to bioaccumulate. Octamethylcyclotetrasiloxane, bioconcentration factor (BCF): 12,400.

**12.4. Mobility in soil**

Paste. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

**12.5. Other adverse effects**

None known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Incinerate with a properly licensed facility. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number or ID number**

RID/IMDG/ICAO:

UN3077

<b>TDG:</b>	UN3077
<b>US DOT:</b>	UN3077
<b>14.2. UN proper shipping name</b>	
<b>RID/IMDG/ICAO:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
<b>TDG:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
<b>US DOT:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
<b>14.3. Transport hazard class(es)</b>	
<b>RID/IMDG/ICAO:</b>	9
<b>TDG:</b>	9
<b>US DOT:</b>	9
<b>14.4. Packing group</b>	
<b>RID/IMDG/ICAO:</b>	III
<b>TDG:</b>	III
<b>US DOT:</b>	III
<b>14.5. Environmental hazards</b>	
MARINE POLLUTANT	
<b>14.6. Special precautions for user</b>	
NO SPECIAL PRECAUTIONS FOR USER	
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
NOT APPLICABLE	
<b>14.8. Other information</b>	
<b>US DOT:</b> ERG NO.171,	
May be shipped as NON-RESTRICTED in non-bulk packagings (882 lbs. or less) by motor vehicle, rail car or aircraft. (49 CFR 171.4(c))	
<b>IMDG:</b> EmS. F-A, S-F	
May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less.(IMDG CODE Amendment 37-14, 2.10.2.7)	
<b>ICAO/IATA:</b> May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less. (IATA Dangerous Goods Regulation 56 <sup>th</sup> edition, 4.4 Special Provisions A197)	

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. National regulations****US EPA SARA TITLE III****312 Hazards:****Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

Reproductive toxicity	Zinc Compounds	7-13%
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TSCA: All chemical components are listed or exempted.

**Other national regulations:** None

**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms:** ATE: Acute Toxicity Estimate  
 BCF: Bioconcentration Factor  
 cATpE: Converted Acute Toxicity point Estimate  
 ES: Exposure Standard  
 GHS: Globally Harmonized System  
 ICAO: International Civil Aviation Organization  
 IMDG: International Maritime Dangerous Goods  
 LC50: Lethal Concentration to 50 % of a test population  
 LD50: Lethal Dose to 50% of a test population  
 LOEL: Lowest Observed Effect Level  
 N/A: Not Applicable  
 NA: Not Available  
 NOEC: No Observed Effect Concentration  
 NOEL: No Observed Effect Level  
 OECD: Organization for Economic Co-operation and Development  
 (Q)SAR: Quantitative Structure-Activity Relationship  
 REL: Recommended Exposure Limit  
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS: Safety Data Sheet  
 STEL: Short Term Exposure Limit  
 STOT RE: Specific Target Organ Toxicity, Repeated Exposure  
 STOT SE: Specific Target Organ Toxicity, Single Exposure  
 TDG: Transportation of Dangerous Goods (Canada)  
 TWA: Time Weighted Average  
 US DOT: United States Department of Transportation  
 WHMIS: Workplace Hazardous Materials Information System  
 Other abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Key literature references and sources for data:** Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)  
 Chemical Classification and Information Database (CCID)  
 European Chemicals Agency (ECHA) - Information on Chemicals  
 Hazardous Chemical Information System (HCIS)  
 National Institute of Technology and Evaluation (NITE)  
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)

**Procedure used to derive the classification for mixtures according to GHS:**

Classification	Classification procedure
Repr. 2, H361f	Calculation method
Aquatic Chronic 2, H411	Calculation method

**Relevant H-statements:** H226: Flammable liquid and vapour.  
 H319: Causes serious eye irritation.  
 H361f: Suspected of damaging fertility.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.  
 H411: Toxic to aquatic life with long lasting effects.

**Further information:** None

**Date of last revision:** 11 April 2023

**Changes to the SDS in this revision:** Original issue.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.