

SAFETY DATA SHEET

in accordance with 2015/830/EU (REACH, Annex II) and Safe Work Australia

Revision date: 17 January 2020

Initial date of issue: 6 July 2007

SDS No. 152B-21a

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

Solid gap filler. Makes any size, any shape gasket. Never sticks.

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
E-mail (SDS questions): ProductSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Supplier:

EU: Chesterton International GmbH, Am Lenzenfleck 23,
D85737 Ismaning, Germany – Tel. +49-89-996-5460

1.4. Emergency telephone number

24 hours per day, 7 days per week
Call Infotrac: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / GHS

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

2.1.2. Australian statement of hazardous nature

Not classified as hazardous according to criteria of Safe Work Australia.

2.1.3. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] / GHS

Hazard pictograms:



Signal word: None

Hazard statements: H411 Toxic to aquatic life with long lasting effects.

Precautionary statements: P273 Avoid release to the environment. Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container to an approved waste disposal plant.

Supplemental information: None

2.3. Other hazards

None known

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

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
Zinc oxide	7-13	1314-13-2 215-222-5	NA	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 M-factor acute/chronic: 1
Silicic acid (H ₄ SiO ₄), tetraethyl ester	1-5	68412-37-3* 270-184-7	NA	Flam. Liq. 3, H226 Eye Irrit. 2, H319
Octamethylcyclotetrasiloxane	<0.15	556-67-2 209-136-7	NA	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 4, H413
Other ingredients:				
Calcium carbonate	20-30	1317-65-3 215-279-6	NA	Not classified**
Silica (Quartz)	0.1-0.2	14808-60-7 238-878-4	NA	Not classified**

*Alternative CAS No. 11099-06-2, EC No. 234-324-0.

**Substance with a workplace exposure limit.

For full text of H-statements: see SECTION 16.

¹ Classified according to: 1272/2008/EC, REACH, Safe Work Australia, 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: FIREFIGHTING 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 may include: Carbon Monoxide, Carbon Dioxide and other toxic fumes.

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	ACGIH TLV ¹		UK WEL ²		AUSTRALIA ES ³	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Zinc oxide	N/A	2 (resp.) STEL: 10 (resp.)	N/A	N/A	N/A	10 (inhal.)
Silicic acid (H4SiO4), tetraethyl ester	N/A	N/A	N/A	N/A	N/A	N/A
Octamethylcyclotetrasiloxane	N/A	N/A	N/A	N/A	N/A	N/A
Calcium carbonate	N/A	10 * (inhal.) 3 (resp.)	N/A	10 (inhal.) 4 (resp.)	N/A	10
Silica (Quartz)	(resp.)	0.025	(resp.)	0.1	(resp.)	0.1

* Particles Not Otherwise Specified (PNOS)

¹ American Conference of Governmental Industrial Hygienists threshold limit values

² EH40 Workplace exposure limits, Health & Safety Executive

³ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

Biological limit values

Not available

Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:**Workers Workers**

Substance Substance	Route of exposure Route of exposure	Potential health effects Potential health effects	DNEL DNEL
Zinc oxide	Inhalation	Chronic effects, local	0.5 mg/m ³
		Chronic effects, systemic	5 mg/m ³
Octamethylcyclotetrasiloxane	Inhalation	Chronic effects, local	73 mg/m ³
		Chronic effects, systemic	73 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006: Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

Not available

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

Physical state	paste	Odour	sweet odor
Colour	white	Odour threshold	not determined
Initial boiling point	not applicable	Vapour pressure @ 20°C	not determined
Melting point	not applicable	% Aromatics by weight	0%
% Volatile (by volume)	0%	pH	not applicable
Flash point	> 93°C (> 200°F)	Relative density	1.29 kg/l
Method	Cleveland Open Cup	Coefficient (water/oil)	< 1
Viscosity	2 million cps @ 25°C	Vapour density (air=1)	> 1
Autoignition temperature	not determined	Rate of evaporation (ether=1)	< 1
Decomposition temperature	not determined	Solubility in water	insoluble
Upper/lower flammability or explosive limits	not determined	Explosive properties	not determined
Flammability (solid, gas)	not applicable	Oxidising properties	not determined

9.2. Other information

EPA 24: 0

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
Silicic acid (H4SiO4), tetraethyl ester	LD50, rat	> 2,000 mg/kg

Dermal:

Substance	Test	Result
Silicic acid (H4SiO4), tetraethyl ester	LD50, rabbit	> 4,450 mg/kg

Inhalation:

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

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
Silicic acid (H ₄ SiO ₄), tetraethyl ester	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.

12.2. Persistence and degradability

Silicic acid (H₄SiO₄), tetraethyl ester: not readily biodegradable. Zinc oxide, Calcium carbonate, Silica: inorganic substances. Silicic acid (H₄SiO₄), tetraethyl ester: hydrolyzes in water or moist air, releasing ethanol.

12.3. Bioaccumulative potential

Calcium carbonate, Zinc oxide: not expected to bioaccumulate.

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. Results of PBT and vPvB assessment

Octamethylcyclotetrasiloxane: PBT, vPvB.

12.6. Other adverse effects

None known

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

May be landfilled if stabilized with non-biodegradable material. 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**

ADR/RID/ADN/IMDG/ICAO: UN3077

14.2. UN proper shipping name

ADR/RID/ADN/IMDG/ICAO: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

14.3. Transport hazard class(es)

ADR/RID/ADN/IMDG/ICAO: 9

14.4. Packing group

ADR/RID/ADN/IMDG/ICAO: III

14.5. Environmental hazards

MARINE POLLUTANT

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

NOT APPLICABLE

14.8. Other information**IMDG:** 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)

ICAO/IATA: 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 56th edition, 4.4 Special Provisions A197)**ADR:** Classification code M6 Tunnel restriction code (E)

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. (ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375)

ADG HAZCHEM CODE: 2Z HIN: 90**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU regulations****Authorisations under Title VII:** Not applicable**Restrictions under Title VIII:** Not applicable**Other EU regulations:** Substances of very high concern (SVHC) per Regulation (EC) No 1907/2006 (REACH) Art. 57: Octamethylcyclotetrasiloxane**15.1.2. National regulations**

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
cATpE: Converted Acute Toxicity point Estimate
CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
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
PBT: Persistent, Bioaccumulative and Toxic substance
(Q)SAR: Quantitative Structure-Activity Relationship
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
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
vPvB: very Persistent and very Bioaccumulative substance
WEL: Workplace Exposure Limit
WHMIS: Workplace Hazardous Materials Information System
Other abbreviations and acronyms can be looked up at 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)
Swedish Chemicals Agency (KEMI)
U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP]:

Classification	Classification procedure
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.
H413: May cause long lasting harmful effects to aquatic life.

Hazard pictogram names: Environment

Changes to the SDS in this revision: Sections 8.1, 14, 16; header.

Further information: None

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.